COMPUCOM Group of Colleges

Approved by AICTE, Govt. of India & Affiliated to RTU, Kota & University of Rajasthan, Jaipur

SP-5, 5A, EPIP, Sitapura, Jaipur - 302022 (Rajasthan)
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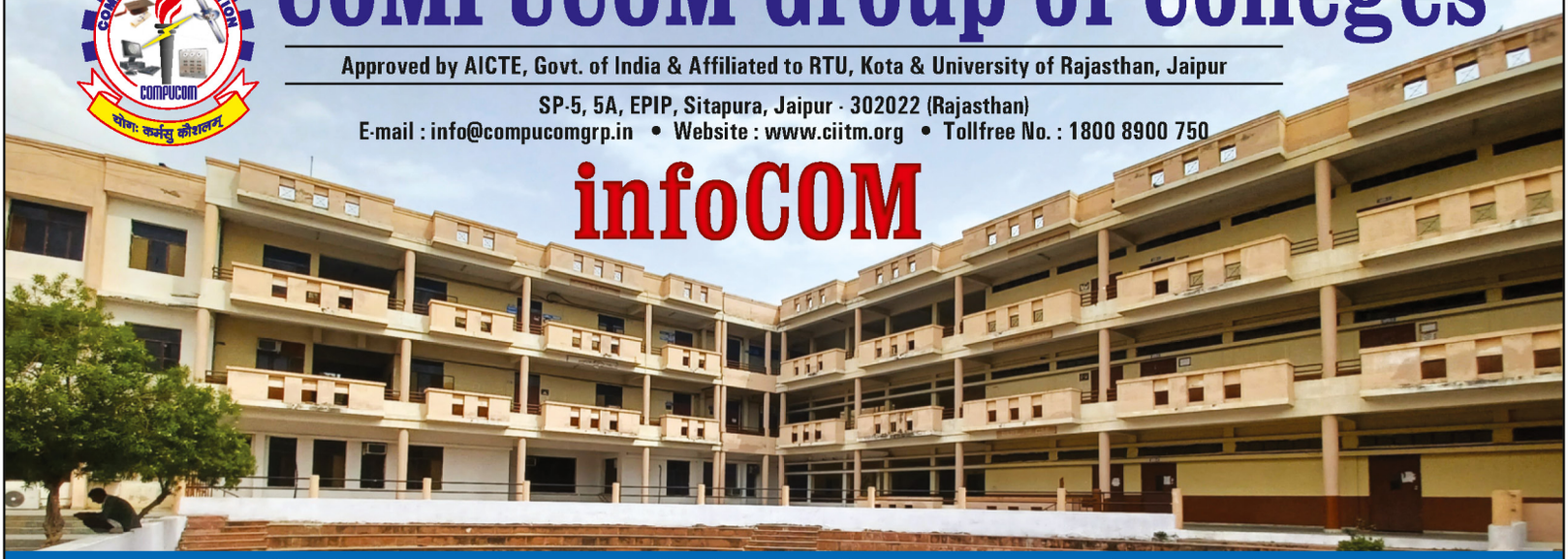

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A dictum of Holistic Growth • NEWSLETTER • Issue - II • September 2022

CHIEF PATRONS

Mr. S. K. Surana
Chairman

Mr. Vaibhav Surana
Vice Chairman

PATRONS

Prof. (Dr.) M.R. Farooqi
Principal

Prof. Pawan Agarwal
Registrar

Fresher's Party @ Compucom

Compucom Institute of Technology and Management, situated at Sitapura, Jaipur celebrated the fresher's party on 17th September 2022 for the students of first year with fun and frolic creating a power-driven and peppy ambiance in the lush green garden of it.

With the ceremonious Lamp lighting, Ganesh Vandana, and the floral welcome of Chief Guests Honorable Shri Pratap Singh Khachariyawas, Cabinet Minister- Food, Civil Supplies and Consumer Affairs Dept. and Honorable Mr. S. K. Surana, Chairman, Compucom Groups of Colleges by Prof. (Dr.) M. R. Farooqi, Principal and Prof. Pawan Agarwal, Registrar the programme was initiated instilling the feel of cordiality and spirituality in the students and surroundings.

Glimpses

- Fresher's Party
- Events & Activities
- Tech Fest
- Conferences and FDPs
- Publications
- Innovative Strokes
- Achievements

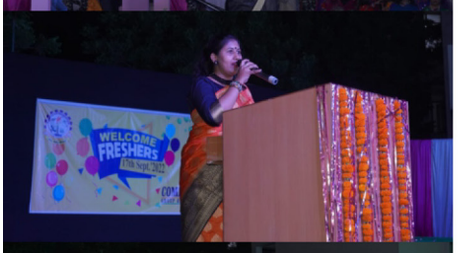


Further the programme was sparked by the speeches of Chief Guest Honorable Shri Pratap Singh Khachariyawas, Cabinet Minister-Food, Civil Supplies and Consumer Affairs Dept. and Honorable Mr. S. K. Surana, Chairman, Compucom Groups of Colleges who gave the engineering students some relevant tips to enjoy life to the fullest making a balance between their academic life and enjoyment. The illuminative speeches by youth icons made the students listen them with a pin-drop silence and diligence. Furthermore they advised the students to decide their goals of life to achieve and wished them good luck.

With great vigor and gusto, the students of all years and branches collectively enthralled the whole college with their various enchanting cultural performances like Folk dance, Western dance, Punjabi Bhangra and Skit etc. Furthermore the newcomers participated in the RAMP WALK organized for their fun, which was judged by Nidhi Sethi, HR, Compucom Software Limited and Dr. Supernova Chakraborty, Head of Operations, Ample works Software Pvt. Ltd., Jaipur meticulously. MR. CITM & MS. CITM titles were bestowed upon deserving students named Priyanshu Tyagi and Khushi Dua from BCA 1st Year.

Dr Sarita Agarwal coordinated the whole programme dexterously and Ms Moon Moon Lahiri moderated it with her expertise. Further a vote of thanks was proposed towards the chief guest, the judges, the dignitaries, the faculty members and students for making it a great success and the programme ended with a promise to maintain a homely and healthy environment in college. Reverberated sounds of dancing, cheering and singing finally served the purpose of bringing out the novice hearts from their shells of fear or shyness.



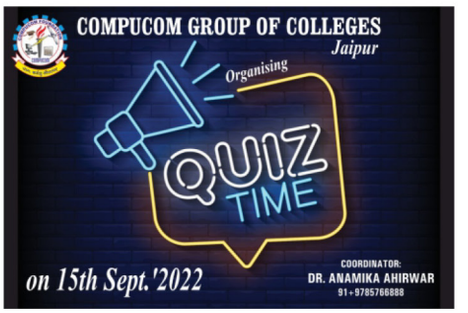

Orientation Day of B.Tech First Year

An orientation programme was successfully organized in the conference hall for the students for B.Tech Ist year with profuse enthusiasm and gusto by Compucom family to welcome them on Ist Sepetember, 2022. Prof. (Dr.) M. R. Farooqi, Principal welcomed the students and their parents with his motivating words for new beginnings. Further Prof. Pawan Agarwal, Registrar gave an enlightening speech spreading the positivity in the aura. Students thoroughly relished the doses of inspiration given to them by Dr Ajay Jain, Dean Academics and Mr. Abhishek Kumar Sharma and appeared quite enthusiastic for a fresh start. Dr Shalini Yadav, Professor, Department of English moderated the programme successfully and it ended with an oath of utilizing energy for individual growth in specific and contribution to society in general.

Tech Fest @ Compucom

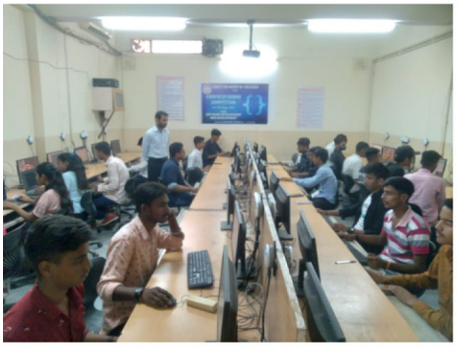
In the campus to promote and enhance techno-skills of students, a two days Tech Fest was organized on 15th and 16th September, 2022. Five events Poster Making Competition, Quiz Sessions, Computer Coding Competition, Model Making Competition and Paper Presentation were being conducted in coordinatorship of skilled faculties of college. A big number of students participated with loads of enthusiasm and fervor and showed their talents. It became a grand success elevating them high.

1. Date: 15th September, 2022
2. Event Time: 10:00 AM to 12:00 PM
3. Coordinator: Ms Reena Sharma
4. Team Members: Ms. Neha Goyal, Mr. Toni Shankar
5. Theme:
   1. Environmental Pollution
   2. Climate Change
   3. Ecosystem & Bio Diversity
   4. Innovations in Technologies
6. Total Entries: 18
7. Judges: Dr. Deepak Chauhan and Dr. Shubhra Mathur
8. Result:
   Winner: Priya Kumari (BCA 1st Year)
   Runnerup: Nidhi Gupta and Vimal Teterwal (B.Tech CE Final Year)



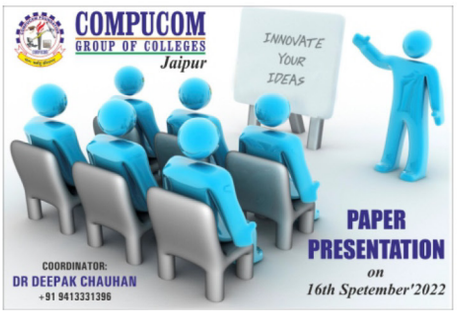
1. Date: 15th September, 2022
2. Event Time: I Round (Screening Round): 10:00 AM to 11:00 AM
   II Round (Final Round): 1:30 PM to 3:30 PM
3. Coordinator: Dr. Anamika Ahirwar
4. Team Members: Mr. Mahesh Saini, Mr Ram Verma,
5. Theme: Two Rounds & 4 Round Sessions
6. Total Entries: 99
7. Result: Winner: Team B: Gaurav Sharma and Akshay Sharma (BCA 2nd Year), Hemant K Chaudhary and Varun Gahlot (BCA 1st Year)
   Runnerup: Team E: Nitesh Kumawat (B.Tech 1st Year), Priyanshu Barthwal and Kanishk Sharma (BCA 1st Year), Yash Parashar (B.Tech 2nd Year)

1. Date: 15th September, 2022
2. Event Time: 10:00 AM to 1:00 PM
3. Coordinator: Mr. Upendra Varshney
4. Team Members: Mr. Mohit Gupta, Mr. Ramesh Suthar, Ms. Neelam Jangid
5. Theme: 1. Software Development
   2. Web Development
6. Total Entries: 31
7. Judges: Dr. Manish Suroliya, Mr Sanjay Shrimal, Mr. Lokesh Kumar
8. Result: Senior Category
   Winner: Sumit Gyanani (BCA Final year)
   Runnerup: Yogita Gupta (BCA Final year)
   Junior Category
   Winner: Priyanshu Barthwal (BCA 1st Year)
   Runnerup: Ashish Kamalapuri (B.Tech CS 2nd Year)



Tech Fest @ Compucom

1. Date: 16th September, 2022
2. Event Time: 10:00 AM to 1:00 PM
3. Coordinator: Dr. Sheetal Agarwal
4. Team members: Mr. R. K. Mishra, Mr. Sunder Singh, Mr. Sandeep K, Ms. Kajal Singh, Mr. Monu Jangid
5. Theme:
   1. Recent Advances in Engineering (EE/EC/ ME/CE)
   2. Recent Developments in Computer Science (CS/BCA/MCA)
6. Total Entries: 18
7. Judges: Dr Richa Sharma, Mr Mahendra S Panwar
8. Result: Winner: Himanshu Sharma, Nikhil Dutt, Ashish kamalapuri (B.Tech CSE, 2nd Year)
   Runnerup: Nidhi Gupta and Vimal Teterwal (B.Tech CE Final year)



1. Date: 16th September, 2022
2. Event Time: 10:00 AM to 1:00 PM
3. Coordinator: Dr Deepak Chauhan
4. Team members: Dr Shubhra Mathur, Ms Sweta Agarwal, Mr. J P Shrivastav
5. Total Entries: 12
6. Judges: Dr Ajay K Jain, Dr. Manish Suroliya, Dr. Shalini Yadav
7. Result: Winner: Yash Parashar (B.Tech 1st Year)
   Runnerup: Yograj Bairwa (BCA 3rd Year)

Pool Campus Placement Drives at Compucom Group Laxmanya Technologies Pvt. Ltd.

Esteemed company Laxmanya Technologies Pvt. Ltd. came to Compucom Campus for a huge placement drive. Mr. Anas Ansari, TPO, Compucom Group of Colleges organized the drive successfully. A big number of students participated in the drive and 11 students are shortlisted after 3 rounds by the recruitment panel.

Bytegrow Technologies

Congratulations! Gaurav Gupta, Yogita Gupta, Harsh Saini, Vikash, Neeraj Kumar Thakur, Ujjawal Malviya and Ajay Singh Bisht are selected in Bytegrow Technologies on a lucrative salary package. Compucom group with Bytegrow Technologies organized a placement drive for students and got huge response.

Implementation of Value Added Courses

A teacher plays a vital role in a student's life imparting value-based education hence values make them lead a quality life further. Therefore in the month of Teacher's Day celebration, Compucom Group of Colleges initiated for some value added courses to kick start in the campus for the character formation and personality development of students.

Do implement values in yourself and redesign the fabric of your persona!

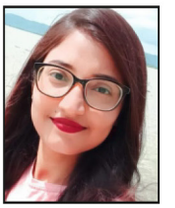
Conferences and FDPs

Dr. Anamika Ahirwar participated in one week online Faculty Development Programme on “Emerging Research Trends in Computer Science” organized by Department of Computer Science and Engineering, Amity University, MP.

Teacher's Day Celebration

The faculty members and students together at Compucom Campus celebrated teacher's day with great fervor and enthusiasm. Honourable Mr. S. K. Surana, Chairman, Prof. (Dr.) M. R. Farooqi, Principal and Prof. Pawan Agarwal, Registrar graced the occasion with their presence cutting the cake together. All faculty members gathered and celebrated it. Students arranged few games and activities for faculties and it created a holistic environment making their bond stronger as teacher-student.

Faculty Achievements



Ms. Kajal got selected in Basic Computer Instructor Exam, 2022 conducted by Rajasthan Staff Selection Board, Jaipur, Rajasthan. Congratulations!

Mr. Mahesh Kumar Saini got selected in Basic Computer Instructor Exam, 2022 conducted by Rajasthan Staff Selection Board, Jaipur, Rajasthan. Congratulations!

Concrete Structure Demolition Using Water Implosive Technique: A Case Study of Twin Tower

The Building Implosion Technique is one of the concrete structure demolition techniques in which the explosive material is placed strategically and timing of its explosion can also be controlled. Building Implosion is a recent technique which demolishes the concrete structure within seconds with minimal physical damage to its immediate surroundings. This technique involves using explosives to knock out a building's primary vertical supports, causing the building to collapse onto itself from the inside out. Explosive demolitions consist of using controlled explosives by placing small explosive charges (generally less than 50 g), which are usually placed in the structural elements that are to be demolished and narrow drillings are made for this purpose.

The 'Water Implosion Technique' is used for collapse any concrete structure inwards and onto itself. It is often used in urban settings in which the supporting structure members can be removed from the building that brings building down. The key features of water implosion collapse mechanism are as follows:

- It is a method to demolish the tall buildings.
- The term 'waterfall' is used as the collapse of a building is to replicate water hitting the ground from a height.
- For the implosion, holes are drilled in columns, beams and shear walls.
- To prevent high-velocity debris from flying around as a result of the explosives, a wire-mesh is used encase the parts that hold the charges.

Recently, in India, Noida Development Authority demolished the twin tower buildings in Noida, Uttarpradesh. The both towers were taller than Delhi's iconic Qutub Minar; were brought down by Waterfall Implosion Technique. They are considered to be the tallest structures in India to be demolished. Edifice Engineering Company was assigned for the demolition, with minimal disturbance and in shortest possible time. This technique is chosen on the basis of three parameters - cost, time and safety. The 3,700 kg of explosives inserted into nearly 7,000 holes in the pillars of the buildings and 20,000 circuits were set. The blast was planned to ensure that the towers fall straight down in what is called the Waterfall Implosive Technique It took nine seconds for the twin towers, to collapse and another 12 minutes for the dust to settle.

Nowadays, controlled demolition can be used effectively for buildings of significant height, bridges, chimney stacks and cooling towers, since it is more cost and time efficient in bringing down a building of significant size and height, using explosives.

Among various controlled demolition techniques, waterfall implosion is the strategic placing of explosive material and timing of its detonation so that structure collapses on itself within few seconds followed with minimum physical damage to its immediate surroundings.

Dr Sheetal Agarwal
(Professor, CE Dept.)

Vimal Teterwal
(B.Tech IV Year)

When God created Man

The Story goes back to the times when God was creating the universe. He wanted life so he created earth and many organisms and creatures. At last he created a donkey, a dog, a monkey and a man. When God created a donkey, he said, "You will be a donkey and will live and work for man. You will carry loads and bear burden for him. You will eat whatever you get and live for twenty five years. The donkey replied, "Master, twenty five years are too much, please give me five years only". God granted it five years. After that God created a dog and told him, "You will be a dog and man's partner and would live for him and guard his house for twenty years". The dog pleaded, "Master, twenty years are too much, please give me only ten years". God granted it ten years.

After that God created a monkey and told, "You will be a monkey, an unstable animal, and you will keep jumping from branch to branch and will live for thirty years. The monkey replied, "Master, thirty years are too much, please give me only five years". God agreed. At last God created man and told him, "You will be a man, the master of all creatures; you will use your brain to progress and rule the planet. You will live for twenty five years. Man replied, "Master, twenty five years is too less, please give me the twenty, for which the donkey refused, the ten years for which the dog refused and twenty five years for which the monkey refused". God granted him this wish. And since then a man lives as a man for twenty five years then he marries and lives for twenty years carrying and bearing all the burdens of the family, then when his children are grown up and start earning, he lives like a dog for ten years guarding the house and eating whatever is given. And when his children are married and start living separately he lives his last twenty five years as a monkey going from house to house of his children.

Amritesh Mishra
(B.Tech CS III Year)

Ethical Hacking

Ethical hacking is an emerging tool used by most of the organizations for testing network security. The securities risks and vulnerabilities in a network can be recognized with the help of ethical hacking. This research completely concentrates on ethical hacking and problems that may occur while hacking process is in process and various ethical hacking tools available for organizations. Information is the important source for any organizations while executing business operations. Organizations and government agencies have to adopt ethical hacking tools in order to source important documents and sensitive information.

Ethical hacker professionals have to be hired in order to test the networks effectively. Ethical hacker performs security measure on behalf of the organization owners. In order to bring out the ethical hacking efforts perfectly, a proper plan must be executed. Ethical hacking has the ability to suggest proper security tools that can avoid attacks. Hacking tools can be used for email systems, database and voice over Internet protocol applications in order to make communication securely.

Ethical hacking can also be known as penetration testing which can be used for networks, applications and operating systems using hacking tools, is a best method for identifying the attacks before. It effects the entire organization. Ethical hackers are nothing but authorized users for the sensitive information or network of an organization. Using hacking techniques for handling employees in organization and for solving critical cause is not a crime and is ethical.

Varsha Kumari
(BCA 2nd Year)

Sustainability Assessment of a Single Use Plastic Ban

Government around the world is introducing single use plastics bans to alleviate plastic marine pollution. The question is here whether banning single use plastic items is an appropriate strategy to protect the environment. Product life style assessment was conducted for single use plastic and single use non-plastic alternatives. The life cycle impact of the two product categories were compared and scaled.

According to EU consumption of 2016, the result shows that single used plastics ban would decrease plastic marine pollution in the EU by 5.5% that equates to a 0.06% decrease globally. The use of common items like plastic sticks, plastic flags, candy sticks, plastic made plates, cups and glasses will become illegal as a part of the nationwide ban on single use plastic. The single use plastic will invite financial penalty suspension of license, and imprisonment as per the state government rules. The state government is gearing up to enforce the nationwide complete ban on single-use plastic in a bid to save the environment from pollution. The ban is enforced under the New Plastic Waste Management (Amendment) Rule 2021. The department of environment and UDH will enforce the ban by running awareness campaigns, imposing penalties and closure manufacturing units. "Penalty of Rs 500/- will be slapped for the first offence, Rs 1,000/- for the second offence and a whooping Rs 2,000/- for the third time. The plastic bag manufacturer will be slapped with Rs 5,000/- for first offence, Rs 10,000/- for a second offence and Rs 20,000/- for the third offence," said the official who added the punishment. The RSPCB official says that they are empowered to cancel the trade license under the relevant sections if found that production of single-use plastic in any unit. Let us hope that more and more municipalities across India will impose a complete ban on plastic bags. Plastic bags are an Environmental Problem. We all have to do that all we can to improving the environment.

Khushi Dua
(BCA I Year)

Wilcoxon Signed-rank Test: An Important Tool for One Measurement Variable

The Wilcoxon signed-rank test is a non-parametric statistical hypothesis test used either to test the location of a population based on a sample of data, or to compare the locations of two populations using two matched samples. The one-sample version serves a purpose similar to that of the one-sample Student's t-test. Wilcoxon signed-rank test may be used when, the paired t–test, but the differences are severely non-normally distributed. Use the Wilcoxon signed-rank test when there are two nominal variables and one measurement variable. One of the nominal variables has only two values, such as "before" and "after," and the other nominal variable often represents individuals. This is the nonparametric analogue to the paired t–test, and you should use it if the distribution of differences between pairs is severely non-normally distributed.

Null Hypothesis

The null hypothesis is that the median difference between pairs of observations is zero. This is different from the null hypothesis of the paired t–test, which is that the mean difference between pairs is zero, or the null hypothesis of the sign test, which is that, the numbers of differences in each direction are equal.

How it works

Rank the absolute value of the differences between observations from smallest to largest, with the smallest difference getting a rank of 1, then next larger difference getting a rank of 2, etc. Give average ranks to ties. Add the ranks of all differences in one direction and then add the ranks of all differences in the other direction. The smaller of these two sums is the test statistic; W (sometimes symbolized Ts). Unlike most test statistics, smaller values of W are less likely under the null hypothesis. For the aluminum in wood example, the median change from August to November (3.1 micrograms Al/g wood) is significantly different from zero (W=16, P=0.040).

Similar Tests

Paired observations of a measurement variable can be analysed by using a paired t–test, if the null hypothesis is that the mean difference between pairs of observations is zero and the differences are normally distributed. If it has a large number of paired observations, a histogram of the differences can be plotted to see if they look normally distributed. The paired t–test isn't very sensitive to non-normal data, so the deviation from normality has to be pretty dramatic to make the paired t–test inappropriate. Use the sign test when the null hypothesis is that there are equal numbers of differences in each direction, and don't care about the size of the differences.

Ms. Sweta Agrawal
Assistant Professor,
Dept. of Mathematics

Time Management

- TIME.....time is basically a train according to me if you miss it than train is not returned back for you and will never give you a second chance.
- In other words, opportunities come for you only once in your life if you are not ready to grab it, you loose this and every moment of your life you will feel guilty about this.
- Time is very important for success. Success is not about destiny where you feel you are successful in your life, success is a journey which you feel every moment every second with you family and friends, and time gives you a golden chance to create new memories and learn the modern way of success.
- Time is endless and your life is too short therefore accept all those things, times gives you. Many times, in your life you feel low because of your problems and don't get self satisfaction but don't worry, time is never same all time, situations are changed with your efforts and practices.
- Try to rule on time. Make sure, time never rules you. Be a king and face the problems and find the easiest way for your goal. If you respect the time, time will always respect you. So be punctual or dedicated and change your time according to you.

Abrar Ahmad
(B.Tech 1st Year)

Real-Time PCR: A Tool in Biotechnology

Since its introduction in 1983, the polymerase chain reaction (PCR) has found extensive use in a wide range of applications including gene cloning, gene mapping, mutation detection, DNA sequencing, and human identification. PCR is also a valuable tool for measuring gene expression, and an example of the technique known as competitive PCR that is shown as one of the methods that can be used to calculate the amount of mRNA made during the transcription of a specific gene. Since the PCR products synthesized in that protocol are separated and quantified by gel electrophoresis, the method is an end point assay. That is, the products are analyzed after the reaction that makes them completed. Innovations in both instrumentation and in fluorescent dye chemistry spurred the rapid development of methods that could detect PCR products as they are being made, in real time. A number of real-time PCR methods have been described, but two have emerged as the most popular. One uses a DNA-binding molecule called SYBR green, a dye that binds to double-stranded DNA but not to single stranded DNA, and, when so bound, fluoresces. During the cycling reaction, the sample will produce an increasing amount of fluorescent signal as more and more double-stranded product is generated to which the SYBR green dye can attach. The amount of fluorescence in the reaction at any particular time, therefore, is directly related to the number of double-stranded DNA molecules present in the reaction. The downside of SYBR green, however, is that it will bind and fluoresce all double-stranded products in the reaction whether they are specific products, nonspecific products, primer dimers, or other amplification artifacts. The other real-time PCR method is known as the TaqMan or 50 nuclease assay. It uses a dye-labeled probe that anneals to one of the template strands close to and downstream from one of the two PCR primers. A fluorescent dye, referred to as the reporter, is attached to the probe's 50 end. On the probe's 30 end is another molecule, called a quencher, which absorbs the energy from the light source used to excite the reporter dye. When the reporter and the quencher are connected to each other through the intervening probe, the quencher reduces the fluorescent signal of the reporter dye. However, during PCR, Taq DNA polymerase, extending the primer on the probe's target strand, displaces and degrades the annealed probe through the action of its 50 to 30 exonuclease function. The reporter dye is thereby released from its molecular attachment to the quencher, and it fluoresces. The more PCR product generated, the more probe that can bind to that product. The more probe bound, the more reporter dye released during the amplification process and the more signal generated. Fluorescent signal, therefore, is directly related to the amount of input template. Whether using SYBR green or TaqMan probes, the relationship between signal intensity and the amount of template in a real-time PCR reaction provides a reliable means both to quantitate nucleic acids and to assay for the presence or absence of specific gene sequences.

Ms. Neha Goyal
Asst. Professor, Dept. of Botany

RFF Events @ Compucom Campus

A talent hunt show cum competition by RFF team was conducted in the auditorium hall of Compucom and students of many schools and colleges participated in it enthusiastically including students of Compucom Group of colleges. It was followed by Rajasthan Film Festival award ceremony which was organized at one reputed hotel and awards were given to regional films. Honourable Mr. S. K. Surana, Chairman, Compucom Group of Colleges and Tusar Kapur, Film Actor graced the award ceremony with their presence.

Humanity and Peace

Dust and rages take us nowhere,
We all wish to live United here.

A sonless mother with dried tears;
Or a woman trying to save
her respect, she wears;
After listening a cry from a
heart of a child;
How can we be so barbaric and wild?

All and sundry have the same blood,
Then why to fill the earth
with corpses' flood?

Be the ambassador of peace and
harmony
Feeding the starving
souls a spoon of affection's honey.

It's not so difficult
achieving the state of bliss
We just need to discard the
demon's kiss.

Embracing and enlivening sensibility,
Can be reroute to positivity
and sensitivity.

Battles and Mayhems
be the pointless
When we stand together
with kindness.

Respect and empathy are
humane essence,
Where poetry adds more in
the fragrance.

Dr Shalini Yadav
Professor, Dept. of English

(This poem has been published at various platforms and is widely read and appreciated.)