



*Helping to Keep Karnataka at the forefront of IT*



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## TCS TechBytes – Statewide IT Quiz for Engineering Students



**Sri N G Subramaniam**  
COO & Executive Director, TCS

TCS TechBytes program completed its 11<sup>th</sup> edition this year and my sincere compliments for all that has been achieved during this period. It is wonderful to see the collaboration and synergy between BITES, TCS and engineering institutions across Karnataka to make the event a success.

Over the years the program has engaged students, bringing them up to speed with the latest developments in the technology sphere. In the post Covid-19 world there

will be significant acceleration of technology adoption across all industries to become resilient, adaptable and sustainable. It is therefore important to continue learning, un-learning and re-learning to stay relevant. It is also imperative to cultivate a culture of innovation and competitiveness which leads to excellence. Keeping in mind the Covid-19 situation today, stay alert and stay safe. My best wishes to all of you.



**Prof K N Balasubramanya Murthy**  
Chairman, BITES & VC, DSU

We, at BITES, are delighted to record the successful conduction of TCS TechBytes-2020 event held in collaboration with TCS. This event has brought in a whole lot of new experience to each one of the participants across more than 100 institutions. It is the eleventh edition of the event to stand as a proof of evidence for meaningful industry-academia collaboration. This edition was conducted between February 25, 2020 and March 11, 2020 with State finals at SJB Institute of Technology - Bengaluru. State Finals was a closely contested competition till the last moment.

BITES would like to thank **Prof. H.P.Khincha** - Chairman of Karnataka State Innovation Council, Former Professor of IISc, and Former Vice-Chancellor of VTU for gracing the award ceremony to present the prizes to the winners of the state finals at SJBIT and address the gathering as the Chief Guest on March 11, 2020. BITES takes this opportunity to express its thanks and gratitude to TCS as well as personal thanks to Mr. **N.G. Subramaniam**, **Mr Sunil Deshpande**, **Ms. Shoba Murthy**, **Mr. Srinivasa Ramanujam** and **Ms. Anjana** for taking keen interest in organizing this year's event. BITES would like to place on record its appreciation to the hosting institutions and QUIZ MASTER **Mr. Llyod Saldana** for conducting the competition very professionally. Special thanks are due to the Principals and Managements of Engineering Colleges in the state for permitting their students to take part in TCS TechBytes- 2020 event. BITES is happy to witness a steady growth of this as a "must take part" event among the students in the state of Karnataka with the hope that this will become better and better with every passing year in terms of quality and depth of IT quizzing.

## NITK Surathkal Retain Mangalore Champions Title



The 11<sup>th</sup> edition of TCS TechBytes 2020 commenced at Mangalore on 25<sup>th</sup> February, a city that has always created a buzz for the event and has a tremendous following. Around 25 engineering colleges of the region participated in the mega event anchored by quizmaster Lloyd Saldanha at the auditorium of Srinivas Institute of Technology, Mangalore. After a quick introduction about the program, the students participated in the written preliminary round of the quiz. Students had come well prepared which was reflected in the high prelims scores. The top six teams who qualified for the regional finals were:

1. **St. Joseph Engineering College** - Karan Gupta & Garry LP
2. **MIT, Manipal** - Rahul Vishal Mishra & Ashwin Mathur
3. **NMAM Institute of Technology** – Rowell Lewis & Saurabh S.
4. **KVG College of Engineering** - Shobhith J B & Rajath Ballal
5. **NITK Surathkal** - Aniruddh Patil & Amit Bhat
6. **A J Institute of Engg. & Tech** – Shashank S Mayya & Keith L

The quiz had five interactive rounds: Byte Abundance, Tech Vision, Data Clouds, Tech Agile and Connected Ecosystems. Before commencing the quiz, the Quizmaster explained each round in detail to the finalists.

The first two rounds which were passing rounds saw NITK and MIT scoring evenly, with some very good answers. The introduction of the buzzer rounds saw a different story unfolding. NITK made massive strides with some outstanding and quick answers to the questions posed by the quizmaster.

However, KVG were not the ones to give up and chased down the leaders NITK to within touching range. But NITK held their nerves and finished with a decent margin to be crowned champions of Mangalore. An enthralling quiz in all, it was the apt way to begin the 2020 edition of TCS TechBytes

Dr. Shrinivasa Mayya D, Principal – Srinivas Institute of Technology, who gave away the prizes, was very appreciative of the high standards of the quiz through the years, and the competitive spirit of the students participating in the program.

The Winners took home a TCS educational scholarship of Rs.12,000, a glittering trophy and prizes from TCS. The Runners-up received an educational scholarship of Rs 10000 and prizes from TCS. The teams that stood 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> & 6<sup>th</sup> received earphones, pendrives, wireless mouse, haversacks and T-shirts. All the participants were also given certificates.

**Winners: NITK, Surathkal - Aniruddh Patil & Amit Bhat**

**Runner Up: KVG College of Engineering - Shobith TB & Rajath Ballal**

## **National Institute of Engineering Retain Mysore Title!**



TCS TechBytes 2020 Mysore round saw a huge turnout of over 350 students participating at the prestigious SJCE College, Mysore. Close to 20 engineering colleges participated in the event.

The program commenced with a preliminary written round administered by quizmaster Lloyd Saldanha. After the Prelims, the following were the top six teams who qualified for the Regional level Mysore finals:

1. **Maharaja Institute of Technology, Mandya** - Pareekshith Katti & Ponnanna
2. **National Institute of Engineering, Mysore** - Guruprasad Veerannavar & Varun Gupta
3. **Vidyavardhaka College of Engineering, Mysore** - Adith A Danthi & Nikhil Ramesh
4. **Vidya Vikas Institute of Technology, Mysore** - S Shashank & Abhay Kumar
5. **PES College of Engineering, Mandya** – Sunad K & Sanjay NS
6. **NIE Institute of Technology, Mysore** - Shivesh Srivastava & Saurabh Tripathi

As the finals commenced, the teams were off to a flying start with NIE, NIEIT and Maharaja Institute doing very well in the first few rounds. With the introduction of the buzzers, as predicted by the Quizmaster, NIE picked up speed with some very good answers. They took the challenge posed by NIEIT and Maharaja Institute in their stride and built up a good score.

In the last round of the quiz, NIE had taken an unassailable lead and left the other teams to fight it out for the runners up position. A battle ensued between NIEIT and Maharaja Institute, but the former managed to take the lead and win the second place.

The finalists were felicitated by Mr. Sunil Deshpande, Delivery Centre Head TCS Operations Bangalore and Dr T.N. Nagabhushan - Principal, JSS Science & Technology University. They appreciated the efforts of the students and encouraged them to take up further challenges.

The Winners took home a TCS educational scholarship of Rs.12,000, a glittering trophy and prizes from TCS. The Runners-up received an educational scholarship of Rs 10000 and prizes from TCS. The teams that stood 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> & 6<sup>th</sup> received earphones, pendrives, wireless mouse, haversacks and T-shirts. All the participants were also given certificates.

**Winners: National Institute of Engineering, Mysore** - Guruprasad Veerannavar & Varun Gupta

**Runner-Up: NIE Institute of Technology, Mysore** - Shivesh Srivastava & Saurabh Tripathi

## **BLDEACET Continue to Dominate at Kalaburgi**



The harsh summer heat at Kalaburgi did not deter students from participating in TCS TechBytes, with over 300 students participating in the event at Appa Institute of Technology. After a quick preliminary round, the top six teams that qualified were as follows:

1. **Shetty Institute of Technology** - Keerthi Sangappa & Siddaling V Patil
2. **Godutai Engineering College for Women** - Zohra T & Keerthishree Biradar
3. **K.B.N College of Engineering** - Md. Mohsin Ali & Md. Faisal
4. **Appa Institute of Engineering & Technology** - Pankaj Biradar & Md. Yaseen Ahmed
5. **BLDEACET** - Ubaid Inamdar & Shubam K Thakur
6. **Guru Nanak Dev Engineering College** - Abhishek S & Manish Sharanappa

Kalaburgi has traditionally sprung surprises and this year too they were on course. It was for the first time that an all-girls college - Godutai Engineering College for Women topped the prelims with a near perfect score of 19/20.

Despite some new names on stage the traditional teams took hold of the quiz with a three-horse race emerging in the early rounds with AIET, BLDEACET and GNDEC fighting to top the scoreboard. The buzzer rounds saw BLDEACET team take off with a good lead with AIET catching up in the last couple of rounds. Despite AIET's best efforts, BLDEACET retained the winners title to once again emerge Kalaburgi champions.

The event was graced by Dr. V.D. Mytri - Pro Vice Chancellor, Sharanbasava University Kalaburgi, Dr. Anil Kumar Bidve - Registrar, Sharanbasava University and Dr. Shivakumar Jawalagi - Chairman – Dept of E&CE, Sharanbasava University

**Winners:** **BLDEACET** - Ubaid Inamdar & Shubam K Thakur

**Runner Up:** **Appa Institute of Engineering & Technology** - Pankaj Biradar & Md. Yaseen Ahmed

## **KLS Gogte Institute of Technology Triumph at Hubballi**



TCS Tech Bytes at Hubballi held at KLE Technological University drew over 20 colleges from the region. The preliminary round witnessed a very competitive and absorbing session with students coming well prepared. Eventually, the top six teams that qualified for the finals were as follows:

1. **KLE Dr. MS Sheshgiri CET, Belagavi** - Vinayak Jaiwant & Shrirang Kulkarni
2. **KLS Gogte Institute of Technology, Belagavi** - Tanuj Rao & Raviraj Inchal
3. **SDM College of Engineering & Technology, Dharwad** - Pratik Patil & Vaibhavi Bulbule
4. **IIIT, Dharwad** - Jaynit Patel & Gourab Chakraborty
5. **Basaveshwara Engineering College, Bagalkot** - Sahil H & Rohit S
6. **KLS Vdit, Haliyal** - Ravindra S Katti & Sarvesh Angadi

In the first few rounds of the quiz all the teams did their best to score as many points as they could. The passes from one team was quickly converted to points by other teams.

KLE, KLS and SDM were off to a good start. However, a few negative points let SDM down. Both KLE and KLS teams went on to score some big points and with just a few rounds remaining, it looked like either of them could be winners at Hubballi.

It was the confidence of KLS that helped them navigate the tricky questions and they went on to become champions with a comfortable margin. KLE finished runners up despite a valiant effort by SDM to catch up with the front runners.

The Principal of BVB College of Engineering, Prof P.G. Tewari, gave away the prizes and was high praise for the way the quiz was organized and the competitive spirit of all the students participating in the program.

**Winner: KLS Gogte Institute of Technology, Belagavi** - Tanuj Rao & Raviraj Inchal

**Runner up: KLE Dr. MS Sheshgiri CET, Belagavi** - Vinayak Jaiwant & Shrirang Kulkarni

## **BMSIT, Bangalore Retain their Title at Tumkur**



This year's TCS Tech Bytes 2020 at Tumkur, had over 300 students taking part at the prestigious Siddaganga Institute of Technology. Students participated with great enthusiasm in the Prelim, which saw very good scores. The top six team who qualified for the finals were:

1. **JNNCEE, Shimoga** - Pannaga YS & Vivek Kini
2. **East West Institute of Technology, Bangalore** – Dhanush PV & Sharath R
3. **SIT, Tumkur** – Umang Gupta & Kumarguru V
4. **BMSIT, Bangalore** – Rohit Kumar Ojha & Adarsh Vatsa
5. **Sri Vidya Institute of Technology, Bangalore** – Arjun A & Prajwal Srinivas
6. **NITTE Meenakshi Institute of Technology, Bangalore** – Nikhil K Rajput & Mahesh B

The top six teams were well prepared and their fantastic answers showcased their confidence. As the quiz progressed to the third round, the pressure of the buzzer rounds made a difference to the scores. Teams from EWIT and BMSIT took the challenge in their stride scoring points regularly. Though BMSIT had fierce competition from EWIT and the other teams on stage, they withstood the competition to finish off the quiz with a few questions to spare and be crowned the champions at Tumkur.

The event was graced by Dr. M.N. Chanabasappa - Director SIT, Dr. Shivakumar - CEO SIT, Dr K.P. Shivanand - Principal SIT and Mr T.K. Nanjundappa - Secretary Siddaganga Education Society. They gave away the prizes to the winners and appreciated the efforts of the teams.

**Winner: BMSIT, Bangalore** – Rohit Kumar Ojha & Adarsh Vatsa

**Runner Up: East West Institute of Technology, Bangalore** – Dhanush PV & Sharath R

## PES University win Bangalore for the fourth time



Over 400 students participated in the preliminary round of the TCS Tech Bytes quiz held at the sprawling SJBIT campus Bangalore. Bangalore being the last city in the route map, had teams coming well prepared to face the prelims.

Finally the top six teams who qualified for the regional final were as follows:

1. **K.S. Institute of Technology** - Shravan Bhat & Ruthvik BR
2. **PES University** - Akhil Siddharth & Preetham Upadhaya
3. **Government SKSJIT** - Levin G & Ashrith Shetty
4. **SJB Institute of Technology** – Suprad SP & Sandeep NS
5. **Dayanandasagar College of Engineering** - Abdul S & Ashutosh Pandey
6. **Amrita School of Engineering** - Yash Umale & Shariq Akhtar

Teams began with gusto with all of them adding points on the scoreboard in an effort to take the lead. Unlike last year which saw PES run away with the title, this year they had to fend off the challenge from Dayanandasagar College of Engineering. The latter tried their best to catch up with the defending champions and missed out on the final hurdle. PES college, the defending champion team made kept competition at bay to emerge the winners.

The Principal of SJBIT, Dr. Puttaraju, & Ms. Anjana KR – TCS Head - Talent Acquisition for Karnataka & BFSI Group gave away the prizes and appreciated the efforts of all the teams. The competitiveness of all teams that was showcased was applauded and the efforts of BITES and TCS which together support and provide such a platform for students was appreciated.

**Winner: PES University** - Akhil Siddharth & Preetham Upadhaya

**Runner Up: Dayanandasagar College of Engineering** - Abdul S & Ashutosh Pandey

## PES UNIVERSITY BANGALORE CLINCH TCS TECHBYTES STATE FINALS



**Winners - PES University Students**



**Runners-up – BMSIT Students**

The finale of the 11<sup>th</sup> edition of TCS TechBytes showcased some of the brightest engineering minds in Karnataka, who displayed the art of connecting the dots and thinking laterally in the technology context. The program conducted by Tata Consultancy Services in collaboration with the Board for IT Education Standards (BITES) Govt of Karnataka witnessed participation from over 100 engineering colleges across the State.

### Regional Rounds

Students participated in large numbers at the Regional Finals of the program conducted across six cities - Gulbarga, Dharwad, Tumkur, Mysore, Bangalore and Mangalore during Feb-March. The teams that earned their place at the State Finals were:

- NITK Surathkal – Aniruddh Ravichandan Patil & Amith Bhat Nekkare
- NIE Institute of Technology, Mysore - Guruprasad Veerannavar & Varun Gupta
- BMS Institute of Technology (BMSIT), Bangalore - Adarsh Vatsa & Rohit Kumar Ojha
- KLS Gogte Institute of Technology, Belagavi – Tanuj Ravi Rao & Raviraj Inchal
- BLDEA College of Engineering Technology, Vijayapura – Shubham K. Thakur & Ubaid A Inamdar
- PES University, Bangalore - Akhil Siddharth & Preetam Upadhya

### TCS TechBytes State Finals

The above finalists battled it out at the State Finals conducted at SJB Institute of Technology, Bangalore. The animation based quiz format had five segments – Byte Abundance, Tech Vision, Byte Clouds, Connected Ecosystem and Tech Agile.

Some of the questions the teams tackled were : Tesla, Fermi, Maxwell, Pascal, and Volta are all codenames for which GPU architectures? **NVIDIA**. Which open source, public, blockchain-based distributed computing platform created by Vitalik Buterin & Gavin Wood? **ETHEREUM**

Teams from NITK, BMSIT and PES University were within striking distance of each other in the initial rounds. It was the final stretches of the quiz that made this contest very interesting. BMSIT were determined to dislodge the defending champions PES, and put in a mighty effort to not only take the lead but also maintain it till the last round. However PES made a stunning comeback on the last question, thus bringing to a close another edition of TCS TechBytes with a thumping victory. Students from BMS Institute of Technology were the deserving runners-up.

Prizes were distributed to the winners by Prof. H.P. Khincha - former Vice Chancellor VTU Belagavi who was the chief guest, along with Sunil Deshpande - Delivery Centre Head, TCS Operations Bangalore, Dr. K.N. Balasubramanya Murthy – Chairman BITES and Dr Puttaraju – Principal SJB Institute of Technology.