



Estd.1939

KLS GIT's DEPARTMENT OF MCA NEWSLETTER



Estd.1979

ePatrika

January – June 2024

Volume 4 / Issue 1

Vision: The Department of Master of Computer Applications shall strive to stand out as par excellence in generating and grooming, technically competent and skilled intellectual professionals to meet the challenges of the modern computing industry.

Mission: To train the graduates to become IT professionals having strong fundamental knowledge in the field of computer application with ethical values to meet increasing global challenges of ever evolving technologies.



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From the HoD's Desk

Dear Sir/Madam,

It's my pleasure again to release the semiannual magazine 'ePatrika Volume 5/Issue 1' of the Department of Master of Computer Applications at KLS GIT.

In the last 6 months, MCA department had a great journey where we witnessed amazing number of participation and awards by our 2024 batch students. We had an array of events conducted by the team MCA with the most significant ones like: The Graduation Day, Inauguration of Big Data Laboratory and the first National Level Hackathon 'INNOVERSE-2024'. Many thanks to the editor for making this magazine and wish everyone a happy and healthy life.

Dr Jayashri B. Madalgi

ACADEMIC EXCELLENCE

MCA PG CET Toppers at MCA@KLS GIT



Mr Parasharam N. Shinde

USN: 2GI23MC060

PGCET MCA Topper for the batch 2023-2024

PGCET Rank: 169/20000



Mr Mihir Milind Bondre

USN: 2GI23MC050

PGCET MCA Topper for the batch 2023-2024

PGCET Rank: 171/20000

ACADEMIC EXCELLENCE

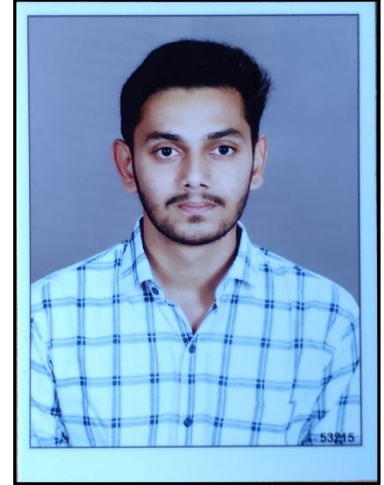
MCA Toppers of the Graduating Batch 2023-2024



Ms Manisha Patil

USN: 2GI21MC043

CGPA: 9.25



Mr Prathamesh M Jadhav

USN: 2GI21MC070

CGPA: 9.04



Ms Pratika Ganesh Murgod

USN: 2GI21MC071

CGPA: 8.89

AWARDS/RECOGNITIONS

MCA Students winners at 'PRAXIS-2K24'



Congratulations to the talented student teams from KLS GIT's MCA first semester for their outstanding performance at '**PRAXIS 2K24 - A National Level Tech Fest**' organised by KLE College of Engineering & Technology, Chikodi from February 29 to March 01, 2024. The winners are:

Aishwarya Mahindrakar, Rutuja Khorde and **Sahana Galbhavi** clinched the 1st Prize with Rs.3000/- cash for the Freaky Finders (Quiz Event).

Shritej Chauhan and **Gautam Kukadalkar** emerged victorious with the 1st Prize and Rs.3000/- cash for the Byte Brilliance (Coding) event. Additionally, they secured the 2nd Prize with Rs.2000/- cash for the Dare Webcon (Web Design).

Mihir Bondre and **Parasharam Shinde** showcased their skills, reaching the final round for the Freaky Finders (Quiz Event).

The students were guided and supported by **Prof. Sheetal Bandekar** and **Prof. Shivani Patankar**. Special thanks to the KLS Management, Principal **Dr M. S. Patil**, Dean R&D **Dr Swetha Goudar**, Dean Student Affairs **Prof. S. P. Deshpande**, and MCA HoD **Dr Jayashri Madalgi** for their unwavering support and encouragement to the students.

AWARDS/RECOGNITIONS

MCA Students winners at 'AURA-2024'



Happy to announce that the First semester MCA students: **Ms Preeti Mutkekar, Mr Pradeep Shirvalkar, Mr Anmol Mogalayi and Mr Maruti Balekundri** participated in the event '**Hasya Sabha (impromptu comedy raga)**' and won 2nd prize during the '**AURA 2024**' organised by KLS Gogte Institute of Technology, Belagavi from 12 March 2024 to 15 March 2024 at KLS GIT campus.

Heartfelt congratulations to the entire team from the HoD MCA **Dr Jayashri Madalgi**, Teaching/Non-Teaching MCA Staff and all MCA students for the wonderful achievement.

AWARDS/RECOGNITIONS

MCA Students winners at 'INVENTO-2024'



Congratulations to our MCA students from KLS GIT for their outstanding performance at 'INVENTO- 2024' held at KLE Technological University, KLE Society's Dr. M. S. Sheshgiri College of Engineering and Technology campus! The winners are:

Debate: 1st Prize bagged by **Shrinidhi Yeri & Simran Fernades**

Treasure Hunt: 1st Prize bagged by **Preeti, Teerthprasad, Pradeep, and Rajiv**

Trash Bin Bonanza: 2nd Prize bagged by **Swati Patil & Amisha Tarihalkar**

Solo Singing: **Asha K** reached the final round!

Thanks to the KLS Management; Principal **Dr M. S. Patil**, Dean R&D **Dr Shwetha Goudar**, Dean Student Affairs **Prof. S. P. Deshpande** and HoD MCA **Dr Jayashri Madalgi** for their support and encouragement.

AWARDS/RECOGNITIONS

MCA Students winners at 'INSIGNIA'24'



Fourteen students from the first semester MCA department led and accompanied by faculty **Ms Sheetal Bandekar** participated in various technical and cultural events in 'INSIGNIA'24, A **National Level Techno Cultural Fest**' organized on 19 -20 April 2024 by the, SDM College of Engineering, Dharwad.. One team comprising of student **Ms Swati Patil** and **Ms Amisha Tarihalkar** won second prize in the Face Painting.

The KLS Management, the Principal **Dr M. S. Patil**, Dean R&D **Dr Shwetha Goudar**, Dean Student Affairs **Dr S. P. Deshpande** and MCA HoD **Dr Jayashri Madalgi** heartily congratulated the winners for their accolades.

AWARDS/RECOGNITIONS

MCA Students winners at 'VENCER-2024'



Seventeen students from the KLS GIT's MCA first semester participated in 'VENCER-2024 - SPIRITUAL INGENERILOR', A National Level Techno-Cultural Fest that was organised by the Angadi Institute of Technology and Management Belagavi from 31 May 2024 to 01 June 2024.

The winners are as follows:

Mask of Logic (Coding) - First Prize

- Swapnil Hebbalkar
- Varun Revankar
- Shritej Chavan
- Shrinidhi Yeri

Best Manager - First Prize

- Vaishnavi Patil

AWARDS/RECOGNITIONS

MCA Students winners at 'VENCER-2024'



AD-MAD - First Prize

Pradeep Shirvalkar
Preeti Mutkekar
Harshita Mohata
Manasi Vernekar
Teerthaprasad Aksharad

Classroom Cricket - First Prize

Mandar Patil
Prashant Shinde
Akash Nagoji
Arun Bendigeri
Samrudhi Jadhav
Keerti Patil

Box Cricket - The team went upto the semi-final round

Mandar Patil
Prashant Shinde
Akash Nagoji
Arun Bendigeri
Samrudhi Jadhav
Keerti Patil
Preeti Mutkekar

Round Table - Second Prize

Vaishnavi Patil
Manasi Vernekar
Harshita Mohata

AWARDS/RECOGNITIONS

MCA Student winners at VTU Inter Collegiate Football Division Level Tournament

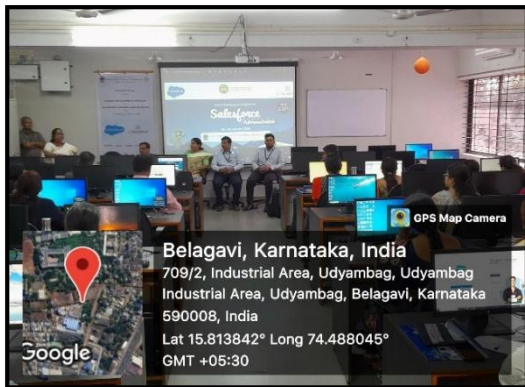
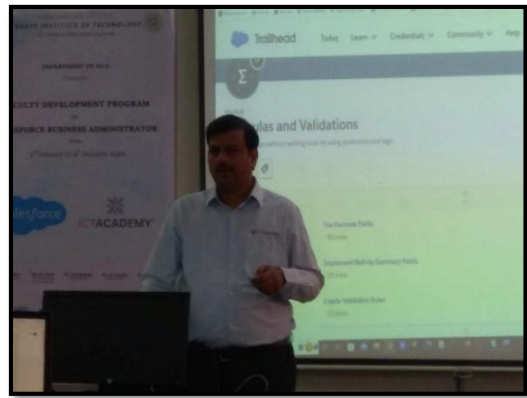


Fourth semester MCA student **Mr Palash Kalghatgi** represented KLS Gogte Institute of Technology has secured winners' place in Visvesvaraya Technological University (VTU) Inter Collegiate Football Division Level Tournament that was held at KLS Gogte Institute of Technology from 22 May 2024 to 23 May 2024.

Team MCA lead by HoD **Dr Jayashri Madalgi** is proud of his achievements and congratulated him for his accomplishment.

EVENTS@MCA

FDP on 'Salesforce Business Administrator'



The 'Salesforce Business Administrator' FDP was held from 01 January 2024 to 06 January 2024, by the Department of MCA, KLS Gogte Institute of Technology, featuring **Mr Raghavendra Swamy Kambhampati**, Senior Technical Trainer from ICT Academy of Tamil Nadu, as the resource person.

The FDP focused on, Exploring Trailhead, formulae, objects, fields, relationships, Building custom pages using Lightning App Builder, picklist administration, reports, dashboards, and app building! 24 Faculties from Karnataka and Goa along with 6 students successfully completed the FDP. The entire FDP was coordinated by faculty **Mr M. S. Emmi**.

Graduation Day for the 2021-2023 Batch



On 09 January 2024, the Master of Computer Applications at KLS Gogte Institute of Technology marked a significant milestone with the '**Graduation Day for the 2021-2023 Batch**'.

We were honored to have **Mr Zubin Souza**, an esteemed alumnus from the 2006-2009 batch, as our Chief Guest. Mr Souza, the founder and CEO of Zunderdog, captivated the audience with his inspiring life journey, filled with both successes and challenges. In his address, Mr Souza emphasized the importance of defining success on one's own terms, steering away from conventional norms. He encouraged graduates to embrace the challenges of the rapidly evolving world of AI/ML, finding joy in the journey.

Expert Talk on 'Latest Advanced .NET Technologies'



On 16 January 2024, KLS Gogte Institute of Technology's Department of Master of Computer Applications arranged an Expert Talk on '**Latest Advanced .NET Technologies**' for the 3rd semester MCA students at Sir M. V. Hall from 03.00 P.M. to 4.30 P.M. The resource person **Mr Subhash Patil**, Senior Associate Technology, Synechron Technologies Pvt Ltd, Bengaluru, Karnataka skilled in ASP.NET, Microsoft SQL Server, SQL Server Integration Services (SSIS), C#, ASP.NET Web API elaborated on the following topics:

1. Microsoft Azure Cloud Services - Provides a broad range of cloud services, including compute, analytics, storage and networking. Users can choose from these services to develop and scale new applications or run existing applications in the public cloud.
2. Microservices Architecture - Also known as the microservice architecture is an architectural style that structures an application as a collection of services that are: Independently deployable and Loosely coupled.
3. Web API & its applications – Is an application-processing interface between a web server and web browser. All web services are APIs but not all APIs are web services. REST API is a special type of Web API that uses the standard architectural style explained above.

Faculty **Prof. Sheetal Bandekar** with support from HoD **Dr Jayashri Madalgi** and the Principal **Dr M. S. Patil** coordinated the entire event.

Inauguration of 'Big Data Laboratory'



The grand inauguration of MCA Department's '**Big Data Laboratory**' by **Shri. Anant Mandgi**, President, Karnatak Law Society, Belagavi, took place on 12 January 2024.

This momentous occasion signifies our unwavering commitment to providing cutting-edge education to our MCA students. Our state-of-the-art facility is now ready to empower students with the latest technologies in distributed computing and data analytics.

Equipped with multiple frameworks like Hadoop, Hive, Spark, and cutting-edge data visualization tools, this lab is set to be a beacon of learning for our students.

Alumni Talk by Mr Zubin Souza



Mr Zubin Souza, Founder & CEO Zunderdog Goa conducted a session on **'Career Guidance'** on 10 January 2024. Mr Zubin is one of the distinguished alumni from batch 2006-2009. Zubin encouraged students to choose internships strategically. He stressed that internships should not just be a checkbox on a resume but opportunities to enhance employ-ability skills. By selecting internships aligned with their career goals, students can gain practical insights, network, and increase their chances of securing meaningful employment. Addressing a query on programming languages,

Zubin left an indelible mark: **'Don't chase languages; master fundamentals.'** Zubin's advice on tech trends was easy – just pick what fits your dream job. Don't follow the trends blindly; just go for what makes sense for where you wanna work. To resonate in the job market, Zubin encouraged students to play an active part in hackathons, tech symposiums, and skill-sharpening endeavors. Zubin's mantra: **'Do what you love!'** Success is not just about achievements but finding joy in the journey.

EVENTS@MCA

Alumni Talk by Mrs Yashwanti Shinde

Karnatak Law Society's
GOGTE INSTITUTE OF
TECHNOLOGY
Belagavi

[An Autonomous Institution under Visvesvaraya Technological University]

Department of Master of Computer Applications

ALUMNI Talk SERIES

Topic
Campus To Corporate

Date
9th February 2024

Time
11:30 AM

Venue:
S. J. Auditorium, GIT

Mrs. Yashwanti Shinde
Impact Division Head
Deshpande Foundations

Prof. V. R. Kokitkar
Event Coordinator,
Department of MCA
KLS GIT

Dr. J. B. Madalgi
HOD, MCA
KLS GIT

Dr. M. S. Patil
Principal
KLS GIT

KLS GIT
"Jnana Ganga", Udyambag, Belagavi - 590 008, Karnataka, India
www.git.edu // +91 831 2498500 // hodmca@git.edu

Mrs Yashwanti Shinde, an esteemed alumna of Department of MCA, delivered an insightful talk on 09 February 2024 on the topic 'Campus to Corporate' sharing her journey and essential tips for transitioning into the corporate world.

Yashwanti's talk provided valuable insights and guidance for students preparing to enter the corporate world. It underscored the importance of skill development, professional etiquette, and networking in achieving success. The event exemplified the strong bond between alumni and the institution, showcasing the role of mentorship in shaping future professionals.

EVENTS@MCA

National Level Hackathon 'INNOVERSE-2024'



The Department of MCA, successfully hosted their very first National-Level Hackathon – ‘**Innoverse-2024**’ from 22 March 2024 to 23 March 2024. with 60 participants from BCA and MCA colleges across Karnataka. With the catchy tagline ‘Imagine, Innovate, Integrate’ the event aimed to spark creativity, problem-solving, and collaboration among budding tech enthusiasts.

Innoverse 2024 showcased the true spirit of innovation and teamwork, setting a high standard for future hackathons at KLS Gogte Institute of Technology. By nurturing talent and building industry connections, this event has made a significant impact on advancing technology and enhancing problem-solving skills among aspiring technologists. 30 participants across Karnataka from BCA and MCA stream participated. The event was entirely managed by the 4th Semester MCA volunteers with the supervision of all MCA staff.

EVENTS@MCA

Poster Making Contest

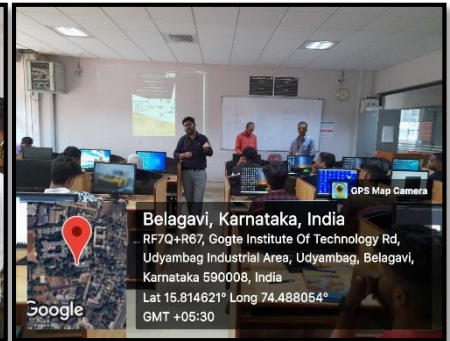
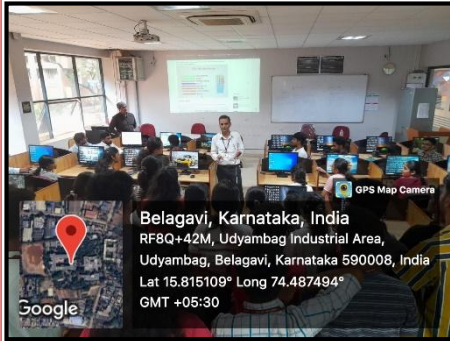


The **Association of Computer Application (ACA)** under the guidance of faculties **Ms S. H. Manoor** and **Mr A. N. Nazare** organised a '**A Poster Making Contest**' that was centered around the theme '**My Vote is My Future - Power of One Vote**'. The contest aimed to celebrate ideas and content that highlight the significance of every single vote in a democracy. A team of 3 to 4 members had to collaborate and create a poster suited to the theme on a A3 size card sheet.

27 students participated in the event enthusiastically and the judges were: Dean Students Affairs **Dr S. P. Deshpande** and Dean Academics (Development), **Dr Arunkumar P.**

EVENTS@MCA

One Day Workshop on 'Practical Approaches for Computer Networking'



KLS Gogte Institute of Technology's Department of Master of Computer Applications organised a Two days Workshop on 'Practical Approaches for Computer Networking' for the 1st semester MCA students from 24 April 2024 to 25 April 2024 with **Mr Venkatesh. Patil**, **Mr Shekhar. Katamble**, **Mr Rajendra. Deshpande** and **Mr Rajesh. Shrikhande** from the KLS Gogte Institute of Technology, Computer Center, as key resource persons for the workshop.

The workshop covered following topics: Basics of Network Topology, IP address (IPv4, IPv6), Network devices , Network switches & Routers, Network security, Firewall, Remote Connections. The Workshop was coordinated by **Prof. Pavan Mitragotri** and **Prof. Nilesh Anvekar**. Special thanks to HoD **Dr Jayashri Madalgi**, Principal **Dr M. S. Patil** and the **Management of KLS GIT** for their never ending support.

EVENTS@MCA

3-Days Faculty Development Program (FDP)/Workshop on 'Blockchain Technology - A Hands-On Approach'



The MCA Department hosted a 3-Day Faculty Development Program (FDP)/Workshop on 'Blockchain Technology – A Hands-On Approach' from 25 June 2024 to 27 June 2024 by esteemed resource person, **Mr Prasanth Sahoo**, Consultant at TransUnion SmartMove Hyderabad. Blockchain Trainer at IIT Kanpur, Blockchain Advisor at upGrad Campus and Visiting Faculty at JNTU Hyderabad College of Engineering, who led the sessions with an engaging, hands-on teaching approach. His expertise provided participants with practical skills and in-depth knowledge of blockchain technology. There was an active participation from numerous faculty.

The FDP was coordinated by **Prof. S. H. Manoor**, **Prof. Pavan Mitragotri** and HoD MCA **Dr Jayashri Madalgi**. The FDP was attended by faculties from various Engineering institutes from Karnataka and Goa.

EVENTS@MCA

Computer Awareness Program at Government School No. 8, Shahapur, Belagavi



The Department of Computer Applications at KLS Gogte Institute of Technology recently conducted a 'Computer Awareness Programme' at Government School No. 8 in Shahapur as part of our ongoing community outreach initiatives.

By reaching out to Government School No. 8, Shahapur, the programme strengthened the ties with the local community and contributed to their educational development. This event was a significant step in commitment to community outreach and education initiated by the students. The MCA Department is proud to have made a positive impact on the lives of these students and look forward to continuing our efforts to bridge the digital divide in our community.

The event was supported by HoD **Dr Jayashri Madalgi**, **Mr Abhishek Nazare**, **Mr Nilesh N Anvekar** and **Ms Deepa S** and the students of MCA were the active members for this noble activity.

FACULTY ACCOMPLISHMENTS

- HoD MCA Department, **Dr Jayashri B. Madalgi** and **Ms Anusha Kalburgi** published paper titled '**Advanced Community Management Systems (ACMS) for Gated Communities**' in UGC approved International Journal for Research in Applied Science and Engineering Technology (IJRASET) in Volume 12, Issue VI June 2024.
- HoD MCA Department **Dr Jayashri B. Madalgi**, **Ms Tejal Kesarkar** and **Ms Sayali Londe** published paper titled '**Blockchain Technology in Law Enforcement and Security: Overview**' in UGC approved International Journal for Research in Applied Science and Engineering Technology (IJRASET) in Volume 12, Issue VI June 2024.
- Dean R&D and Professor of MCA Department, **Dr Swetha Goudar** has contributed as a reviewer for the '**IEEE International Conference on Communications and Computer Science- 2024 (InCCS-2024)**' Jointly organised by Department of Computer Applications, Department of Electronics and Telecommunication, BMS College of Engineering, Bangalore from 22 May 20204 to 23 May 2024.
- Faculty **Mr Mrutyunjaya S. Emmi** attended one month online FDP on '**Data Science**' organised by SillDzire in collaboration with AICTE, New Delhi from 03 June 2024 to 30 June 2024.
- Faculty **Mr Mrutyunjaya S. Emmi** attended one week online national FDP on '**Data Visualization using Tableau**' organised by Department. of CS&E, Mohan Babu University, Tirupati, Andhra Pradesh& EXCELR EDTECH Pvt Ltd from 01 April 2024 to 05 April 2024.
- Faculty **Mr Vinod Kokitkar** has successfully completed 12 Week NPTEL Online Certification Course on '**Introduction to Internet of Things**' with a consolidated score of 95%.

FACULTY ACCOMPLISHMENTS

- Faculty **Ms Swarooprani H. Manoor** was invited as resource person for the International Python Conference, '**BelPy 24**', held during 7 June 2024 to 9 June 2024. She delivered a talk on '**Pack it in Unpack it all – Handling variable length args and Multi returns**'. She conducted a workshop on Regular Expressions as part of the event.
- Faculty **Ms Swarooprani H. Manoor** was invited as one of the Judges for a 24 Hour Hackathon, '**Hack to Future**' Belagavi Zonal competition. Event was held during 4 June 2024 to 5 June 2024 at KLS Gogte Institute of technology, organised by the Department of Computer science and Engineering.
- Faculty **Ms Sheetal Bandekar** was invited to deliver a talk on '**Writing for Business - How to Create Effective Business Documents**' for the first year MBA students of KLS Gogte Institute of Technology on 23 April 2024 between 10.00 A.M. to 12.00 P.M.

PLACEMENTS@MCA



Mr Rajat Bandekar

Placed in: Accenture



Mr Sai Prakash Pednekar

Placed in: TATA ELXSI/PWC



Mr Abhijeet A. Ghodageri

Placed in: TATA ELXSI



Mr Sandesh Udaykumar Mungari

Placed in: TATA ELXSI



Mr Prashant Jatrata

Placed in: TCS NINJA



Ms Snehal Patil

Placed in: Turing

STUDENT'S CORNER

The Role of Transformations in GPT's Architecture

In GPT (Generative Pre-trained Transformer), “transforms” refers to the repeated mapping of input tokens through layers of self-attention and feedforward modules to produce contextualized representations for next-token prediction. First, raw text is tokenized and then embedded into dense vectors. Positional encodings are added so the model knows the order of tokens, since the transformer architecture itself does not inherently encode sequence order. Each transformer block applies two main stages:

1. Masked self-attention (multi-head) — each token's representation is updated by attending to itself and all previous tokens in the sequence (but not future ones), combining information via query, key, and value projections.
2. Feedforward layers — a pointwise, position-wise MLP (typically two linear layers with a nonlinear activation) transforms each token embedding independently.

Residual connections and layer normalization wrap both stages to stabilize learning and maintain gradient flow. Through multiple stacked blocks, GPT progressively refines token embeddings to capture deeper context and dependencies. At the end, the final hidden states are passed through a linear + softmax layer, effectively transforming them into a probability distribution over the next token. In sum, GPT's “transforms” are the layer-by-layer processing that allows raw token inputs to evolve into semantically rich, contextual representations guiding text generation.

Reshma Raju Vernekar

MCA 1st Semester, B Division

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