



TECHWAVE - 2024

**SHRIDEVI DEGREE COLLEGE AND POST GRADUATE CENTRE
&
SHRITEK INNOVATIONS**

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TECHWAVE -2024

Two weeks Hands-on Technical Training

&

Soft-Skill Training

Organized by

ShriTEK Innovations



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“INNOVATION IS THE NEED OF THE HOUR. SIET SHOWS THE WAY”

Commonwealth Day was celebrated across the globe on eleventh March 2024 signifying the beginning of a series of events and activities. ShriTEK Innovations is decided to use this day to mark the beginning of TECHWAVE, a ten-day program enriching the technical and research-oriented minds of students of the final year of Bachelor of Computer Applications.

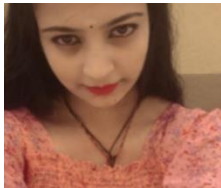
STUDENTS TESTIMONIAL

Sirisha :



"I'm Sirisha. Now, I want to share a few things about Techwave that I learned. Firstly, I want to express my gratitude for the soft skills training, and many faculties provided valuable assistance. Thank you for the session."

Sinchana:



"I will thank all with information & then like coding, soft skill session I get disciplined motivation thank you all faculty."

Abhishek:



"Hello Everyone, I would like to thank Dr. Girish Sir for organizing these motivational sessions, additionally I would like to express my gratitude to Chethan sir & Dr. Krishna Anand sir for the insightful sessions."

TEAM MEMBERS

SL NO	Name	Details
1.	Dr. Girish.L	Machine Learning, Cloud Computing & Devops
2.	Dr. Krishna Anand.S	Machine Learning
3.	Prof. Umesh B. L	Aptitude
4.	Prof. Chethan	Soft-Skill
5.	Prof. Prathibha	Python programming
6.	Prof. Kotramma S	C programming
7.	Prof. Muskan Sharma	C programming & Machine Learning Project
8.	Mr. Mantesh	Coordinating & organizing the Event
9.	Mr. Yashwanth R	Placement assessment & technical assessment
10.	Mr. Pavan Kumar AN	
11.	Miss. Divya N	

DAY 1

The day began with a prayer song by Ms. Muktha of third year. She invoked the blessings of Lord Ganesh for removing all obstacles that are likely to be encountered during the function.

As one would expect, the Principal & Head of the Department of AI&DS inaugurated the function by considering a simple analogy. He could understand that the bubbling kids need to be directed in the proper direction. This in turn would ensure that the students would grow as complete individuals who could then act as guideposts for the upcoming generation.



Just as a tender sapling needs water for nourishment before it grows into a complete tree, the students need to be fed with the right kind of knowledge at the right time. He demonstrated this analogy by watering a plant. He gave a brief talk to the assembled gathering highlighting the need for improving one's skills in this technology ridden world.

Prof. Mubarak the Principal of Shridevi Degree College stressed on the need of the students in remaining competent with the day-to-day world by focusing on the latest technology and be on par with the Engineering Community. Dr. Chandrashekhar N improvised on the earlier speakers by stressing on the practical skills to be acquired by the students which would in turn stand a good stead not only for themselves but also to the society at large. The final speaker of the inaugural session Prof. Umesh focused on the need for upgrading soft skills in tandem with technical skills. The inaugural session came to a close at 10: 45 am.

“A GREAT TWO-WEEK SESSION AWAITS FOR BCA STUDENTS OF SHRIDEVI DEGREE COLLEGE”

TECHWAVE - 2024

As the primary requisite for companies absorbing candidates deal with the analytical skills and capabilities of the students, it was decided to bombard the session with a talk given by Prof. Umesh who in turn first tapped into the hidden analytical capabilities of the students and brought them to the fore. The students were made to realise that they are no longer amateurs while at the same time realising that they are potential job contenders.



The afternoon session began with a whimper where Mrs. Kotramma brought out the essential C Programming skills currently needed in the job market. She gave a higher level of importance to some of the structural constructs and their appropriate usage thereby kindling the intellectual brains of the students bringing them back to their halcyon days.



It had been observed that the mental skills were sharpened during the day. However, the body remained inert at most times. In order to give the necessary push, Mr. Chetan introduced an activity-based session where the hands and legs that were dormant for most parts of the day started making their presence felt. The students were able to use their physical bodies in order to perform activities and during the process hone their soft skills.



The day concluded with a mock-test where the students tried to recollect information learnt during the earlier parts of the day.



DAY 2

Day 2 began with a bang by Prof. Umesh focused on sharpening the mathematical skills of the students by exclusively focusing on solving problems involving the computation of Highest Common Factor and Least Common Multiple. The students were able to continue the practice that they had carried out from the school days. In order to ensure that the students learnt properly, a question-and-answer session followed suit. This was followed by an assignment to be tried out by each individual during the late evening hours.



With Machine Learning ruling the roost over the globe, Dr. Krishna Anand brought the students into the world of Artificial Intelligence where students began to comprehend the subtle aspects of machine learning. They were then able to assimilate and incorporate concepts of rationality and autonomy before they were able to get a glimpse of Machine Learning.



This session was followed by the next level of C programming. Ms. Kotramma had gone to improve the C programming skills of the students by exclusively focusing on arrays and operators. The incorporation of arrays in day-to-day life was made crystal clear. She followed it up with a question-and-answer session where students demonstrated their newly acquired knowledge.



The technical session was followed by a very important concept needed by one and all in this current day to day world. The focus on Time Management which has been on the wane even with experienced industrial professionals was given a special emphasis by Prof. Chethan. He expressed a huge amount of displeasure in the fact that time has been given minimum level of importance in day-to-day activities. Owing to the same, the credibility of individuals and the organisation as a whole has fallen to abysmal levels. His exclusive training gave impetus to individuals who tend to postpone jobs.. He wanted individuals to carry out the job then and there instead of indefinite postponement.



As carried out in the previous day, the day ended with a mock test participated by all students for making them suitable for placement. Prof. Umesh led the show.

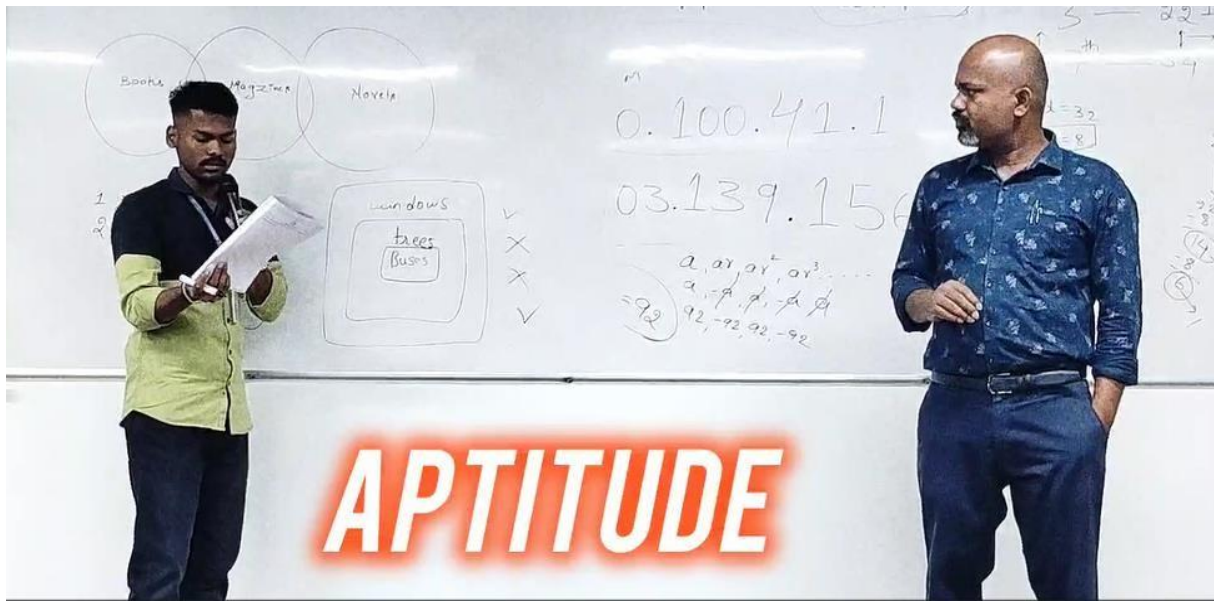


**“NO EVENT CAN BE CONSIDERED OVER WITHOUT
DEMONSTRATION OF ALL ROUND SKILLS AND ABILITIES”**

**SHRIDEVI EDUCATION SHOWCASES THE SAME
LIFE WITH A MEANING
LIFE WITH A DIFFERENCE**

DAY 3

Prof. Umesh started the day by concentrating on the intricacies of mathematics. He gave special emphasis on arithmetic and geometric progression. With each passing minute, he tested the absorbing capabilities of students by asking appropriate questions. He further gave assignments which in turn were carried out by all students during the later part of the day.



Dr. Girish L the Head of the Department then introduced the concept of Cloud Computing. He gave special emphasis on the need for resource sharing which Cloud Computing aspects were able to dwell on. The amount of savings occurring as a result of sharing resources was demonstrated by means of live examples. The next part of the session focused on implementation.



This session was followed by a session on Python programming by Prof. Prathibha. She introduced the vagaries of Python programs.



This session was followed by another round of soft skills by Prof. Chethan. During this session, his exclusive focus was on the manner in which each aspiring individual must set their goals. He expressed displeasure at the fact that the self-confidence of a large number of youths was pretty low. He wanted to ensure that the students hone their skills and express immense amount of confidence in exhibiting their skills at a public place.



The day concluded with a mock test where students recollected the learning acquired during the day.



“TESTING IS A CONTINUOUS LIFELONG PROCESS.”

**BUDDING STUDENTS OF BACHELORS OF COMPUTER
APPLICATIONS COME TO REALISE**

DAY 4

As carried out during the earlier days, Day 4 once again began with Prof. Umesh fine tuning the aptitude skills. He gave exclusive focus on calculation of percentage in various situations and also conducted a question and answer session.



The Head of the Department Dr. Girish L built on the cloud computing concepts shared on the previous day by exclusively focusing on DevOps. The combination of Development and Operation by the same team was demonstrated with live examples. During the rest of the morning session, students worked on various projects pertaining to the same.



The afternoon session began with Prof. Prathibha building on to the knowledge of Python acquired on the previous day by exclusively focusing on Data Structures incorporated in Python.



Following this session, Prof. Muskan Shama gave some practical projects to students who had to implement the same using the knowledge of C programs gathered till date.



Prof. Chethan then built on the knowledge of soft skills acquired during the earlier days by specifically concentrating on the problems faced by individuals owing to procrastination. He first listed out the various ways in which individuals procrastinate and also suggested measures for avoiding the same.



The day ended with the students attempting a mock test where the students were assessed the extent to which they absorbed the intricate details of various sessions held during the day. Slowly they were getting placement ready.



“LIFE AT SHRIDEVI IS ALL ABOUT ACTION”

PERFORMANCE IS THE NEED OF THE HOUR

DAY 5

The fifth day began on a positive note with Prof. Umesh once again donning the mantle by conducting classes on aptitude. During this session, logical reasoning was given due importance. The students were bombarded with live situations where the analytical abilities of the students were tapped. The students then solved problems and were evaluated.



This session was followed by a session on Machine Learning where Dr. Krishna Anand gave exclusive emphasis on the evolutionary aspects. Students were able to solve ontological problems involving choice of Fitness and making necessary computations for Recombination and Mutation.



This session was followed by a hands-on session on Python where students demonstrated their knowledge by carrying out various projects.



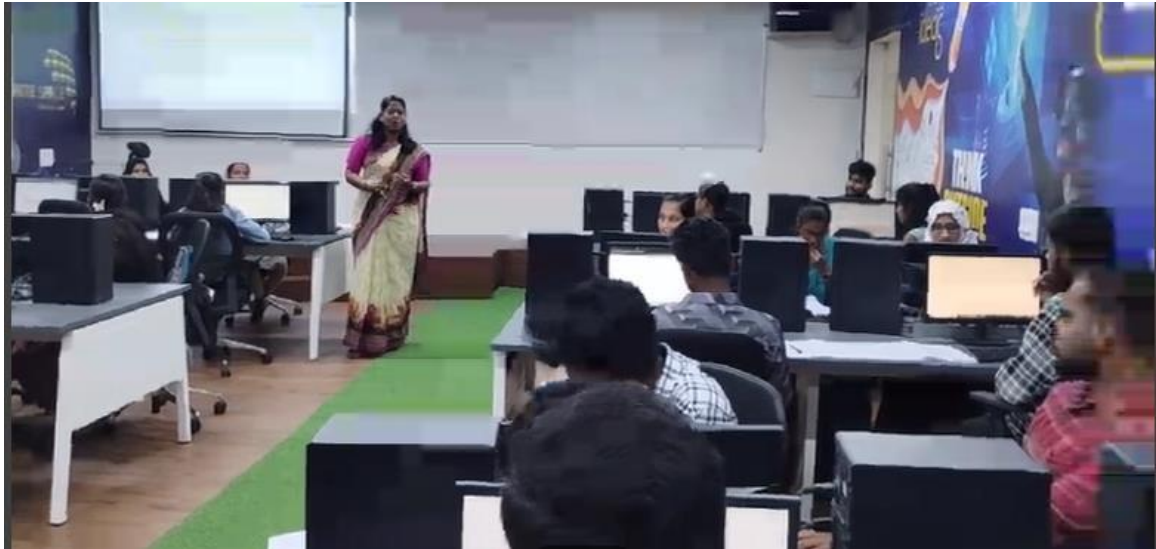
The students who were getting ready for placement were ingrained further by the subtle knowledge they needed in tackling interviews. To make things realistic, Prof. Chethan demonstrated a session where students were taught about the various flaws when they prepare their biodata. The ideal way of preparing a biodata giving stress on vital aspects was in turn projected by him. He also further detailed on aspects of preparing for interviews during that session.



As carried out during the earlier days, the final session of the day ended with a mock test conducted where the students used the knowledge assimilated by them for attempting the exam.

DAY 6

With the approaching weekend, the sixth day exclusively focused on two sessions. The first session exclusively focused on students carrying out projects in Python. The students were able to rectify the problems faced during the previous days and carry out impressive projects.



In today's data-driven world, SQL and Tableau have become indispensable tools for managing and visualizing data. Tableau empowers users to create interactive and insightful visualization while SQL deals with management of relational databases. The users can extract and manipulate data. This information was conveyed to the vast gathering of ebullient students by Mr. Karthik Subbiah, Business Operations Analyst at DealShare. Data being the blood of the project plays a vital role in each and every day to day analytical operation.



DAY 7

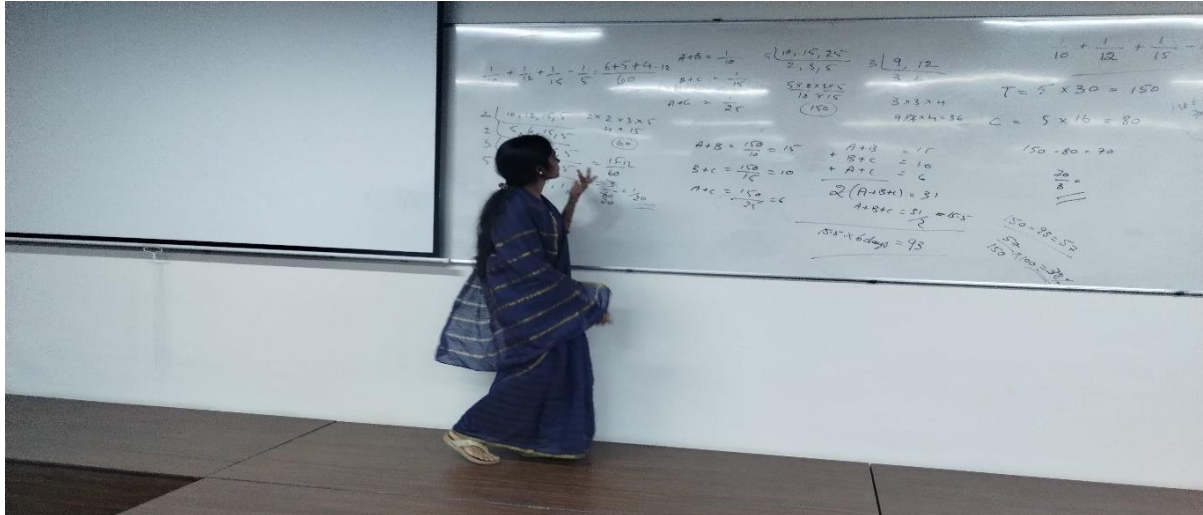
The week started with the same vigour where Prof. Umesh made his presence felt by conducting a session on aptitude.



Prof. Prathibha built on the learning from the previous day by providing a much larger variety of innovative projects which the students implemented using Python.



This session was followed by a session on C Programming by Prof. Muskan where she trained the students with Hackerrank and Leetcode. The students were then asked to incorporate the usage of Hackerrank and Leetcode for solving real world projects.



In the afternoon session, the students were presented with a technical topic. The students were given very short preparation time and were asked to make a presentation on the same. Based on the presentation, the students were evaluated and suggestions for improvement were given by Prof. Chethan. The suggestion include mitigation of stage fear, appropriateness of content and correctness



The day ended with a test where students used their assimilated knowledge for attempting an exam.

**“EXPERIENCE IS THE NEED OF THE HOUR
SAY GOODBYE TO NERVOUSNESS”**

DAY 8

The day began with Prof. Umesh fine tuning the aptitude of students by exclusively focusing the analytical aspects. Day to day events were given as problems, analogies were formulated and students carried out detailed analysis.



This session was followed by another hands-on project session by Prof. Prathibha. By now students had become proficient in carrying out a wide range of projects.



TECHWAVE - 2024

In the next session Prof. Chethan and Dr. Krishna Anand conducted a series of mock interviews for a sample of students. The student's presentation skills, levels of confidence and etiquette were assessed and suitable improvements were suggested. The students were also appreciated in areas where they outperformed beyond expectations.



The day ended with a mock test where the students attempted an exam comprising of a wide range of questions.



DAY 9

As analytical abilities are given a huge level of importance not only for placements but also for carrying out day to day jobs, Prof. Umesh carried out another round of discussions and solving problems that influence the cognitive region of the brain. The students were able to tap their hidden talents and exhibit the same in front of their peers. This was given due recognition.



A newly released platform named Docker provides OS level virtualization for delivering software in packages called containers. Docker engine is a software that hosts these containers. Unfortunately in the present world, not much knowledge on the same is present not only in amateurs but also tech crazy experts. Dr. Girish wanted to bring a change by introducing this concept and mesmerising the audience with his creative abilities. The students were blessed to gather this latest knowledge which in turn would stand a good stead for their upcoming future.



The day ended with students taking up a test on the concepts accumulated during the day.



**“PERFECTION IS A KEYWORD ONLY FOUND IN THE
DICTIONARY.”**

THE SOONER ONE REALISES THE BETTER

DAY 10

The final day of the session made an arduous beginning with students designing more innovative projects in Python at a rapid pace. The intricacies of the project were very clearly demonstrated in front of their tutor Prof. Prathibha who had taken great pains in bringing a sea change not only to an individual but also to the entire gamut of students.



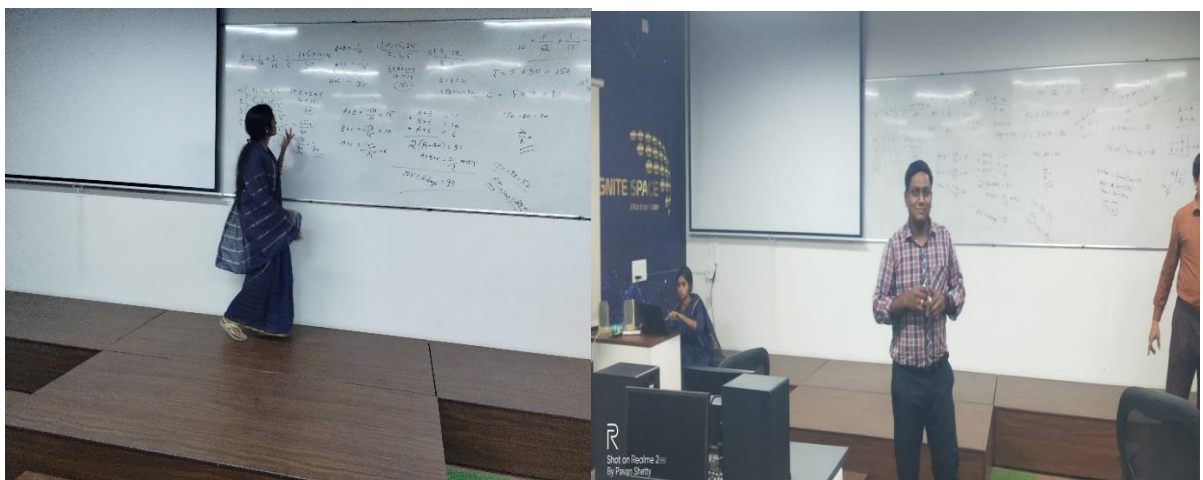
This session was followed by a technical session on GitHub where Dr. Girish I gave relevant inputs which in turn could tap the brain of the students in creating their own websites and also hosting them on the web. Github platform commonly used by netizens across the world was completely explored in intricate details governing a wide range of issues from start to finish. The students were able to use their creative abilities in bringing out the nuances of design which in turn helped them to take a leaf out of the book of hardcore network specialists.



Prof. Umesh followed suit in strengthening the minds of students by asking questions on aptitude learnt during the previous nine days. A wide range of problems were given to them where the students had to recollect every ounce of knowledge learnt during the earlier sessions. However, their efforts did not go unrewarded as the three best performing students were honoured with appropriate prizes in front of the vast gathering. The level of joy experienced by the winners for their efforts coupled with the level of motivation created for a larger section of audience was a treat worth watching.



The afternoon session began with Prof. Muskan providing the students with problem statements for real world mini-projects on Machine Learning. The students jumped over the barrel and took a liking for the same with relative ease having observed the rewards received by the winners earlier. This session was followed by an activity-oriented session where students exhibited some creative abilities in some general topics. They performed activities like Picking the Box and Role Play activities efficiently guided by Prof. Chethan.



The session came to a close in the evening. The students who had exhibited their talents during various phases and areas of the TechWave got instant recognition as prizes awarded did not solely focus on a particular domain. A variety of prizes were awarded; starting with the performance in soft skills. Besides, students who had the best programming skills were awarded as best coders. The students with creative abilities coupled with design had a share of their awards too.

No session is considered complete where the participants do not have a say. This occasion was no different. A group of participants were made to come to the stage and talk about the benefits they received during this session. They were also asked the aspects which could have been better. The participants expressed their pleasure in the amount of knowledge gained during the two weeks. Besides, they also gave suggestions on aspects that could have been added to the TECHWAVE program that could have made the fortnight even more memorable.

TECHWAVE – WHAT A WAVE!!!

IT BROUGHT KNOWLEDGE WAVE.

TECHWAVE - 2024



Finally, the Head of the Department and other members thanked the gathering for ensuring success of an event. No event can be successful without the cooperation of one and all. The teaching faculty, instructors and the participants ensured that there was no lackadaisical effort on the parts of either to ensure success.



THE TEAM OF TECHWAVE

