Aurora Bulletin

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TEMPLE OF LEARNING

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AURORA'S TECHNOLOGICAL AND RESEARCH INSTITUTE

Contents

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Dear Readers,

Director's Message

'Excellence is not a skill; it is an attitude.' With a firm belief in this adage, ATRIans began this academic year with a flurry of activity, aimed at distinction in all endeavours. Completely rejuvenated after their vacation, the faculty members went full-steam ahead with a host of academic, co-curricular and extra-curricular activities. In keeping with the institute's objective of being updated with the latest trends and technologies, the year kick-started with a Faculty Development Programme on 'Promoting Professional Learning' which covered areas like Human Values, Mentoring, Outcome-based Learning and Effective Speaking. The 'extra' that was gained in this programme was definitely a step from the 'ordinary' to the 'extraordinary'. I exhort all faculty members to keep this enthusiasm alive and participate whole-heartedly in such initiatives. At the departmental level too, staff have been proactive in organising workshops---the faculty of English came up with a workshop on 'English in the Technical Education Classroom: Encountering New Challenges'; the Department of Mechanical Engineering conducted an FDP on 'Role of Machine Drawings in Manufacturing Industries' and a workshop on 'Analysis of Pressure Transient Systems'. The CSE & IT Department conducted an FDP on' Data Science and Analytics.'

ATRI has been in the forefront of social and environmental initiatives as well. The Seed Ball Campaign, which was covered live by TV 9, got the institute a coveted position in the Asian Record Book. The success of this campaign went beyond international recognition; it sensitised the community about the pressing need for a green cover through afforestation. The NSS unit, active as always, commenced this year's activities with two socially relevant programmes---'Save The Girl Child' campaign and 'Swacch Bharat Internship'. ATRI hopes to continue to be the torchbearer in such activities. The International Yoga Day was celebrated with gusto, reiterating the pertinence of mental and physical fitness in our daily lives. We look forward to an eventful year with renewed energy, zest and passion. As the saying goes, 'No one can whistle a symphony. It takes a whole orchestra to play it.' Let us work together, as a team, and create harmony in whatever we do.

COLLEGE EVENTS

International Yoga Day, 21st June

ATRI celebrated International Yoga Day on 21 June 2018 in coordination with NSS ATRI Unit. Students from NSS adopted Government school at Parvathapur participated in the event along with the staff members. Ms. Supriya, Asst Professor and Yoga trainer, ECE Dept explained the importance and benefits of yoga. A few simple asanas can increase flexibility, keep us healthy and fit if we could practise daily, she said.

Beginning with gentle warm-up exercises, Ms. Supriya demonstrated some asanas such as Vajrasana, Ashtanga, etc. There are several joints in our body, which need lubrication and movement. In our regular life, some of these joints in our body are overused, while some are rarely used and create problems at a later stage and need lubrication and movement. To help maintain their healthy condition, some basic movements are necessary and also help us to prepare our body for yoga. Vajrasana comes from two words i.e Vajra which means diamond and asan mean seat. Vajrasana pose is also known as Diamond pose, Pelvic pose, Thunderbolt pose, kneeling pose which forms the base of many other asans. Vajrasana can be done after having the food. This posture improves digestion of the food, relieves gas and keeps the stomach healthy. On making it a habit, this sitting posture can be made into a regular and comfortable exercise...

FDP on Promoting Professional Learning

The Internal Quality Assurance Cell of ATRI organized a two-day faculty development programme on 'Promoting Professional Learning' on 22nd-23rd June 2018. Mr. J. Srikanth, Director in-charge inaugurated the FDP and spoke about the importance of attending FDPs to adopt effective teaching methods and create student-centric learning environment. Dr. K. Nagajyothi, Dean R&D and IQAC Co-ordinator highlighted the salient features of e-learning and ICT Academy and stressed on the need for faculty to update themselves with the latest trends and technologies. Dr. P. Bharathi, Professor, Department of English elaborated on the significance and the process of 'Induction Programme' as per revised AICTE regulations and the importance of imparting human values to the younger generation. Ms. G. Kadambari Devi, Associate Professor, Department of English explained the techniques to be adopted by the faculty for creating a compassionate atmosphere in the classroom by fostering mutual respect. Ms. Anuradha Surabhi, Associate Professor, Department of CSE elaborated on Outcome based learning, Instructional design for active learning, outcome based education and learning theories. Dr. B. Sandhya Rani, Professor, Department of English illustrated the techniques involved for speaking effectively and stressed the importance of coordinating thought, word and deed. Ms. B. Malathi, Associate Prof. CSE and Ms.K. Ahalya, Assistant Professor of English presented the demonstrative videos and worksheets. During the valedictory programme certificates were distributed to the faculty members who successfully completed faculty development programmes organized by ICT Academy and NPTEL courses.

Session-1 Induction Programme and Promoting Human Values

Engineering institutions are set up to generate well trained manpower in engineering with a feeling of responsibility towards oneself, one's family, and society. The Engineering students must have knowledge and skills in the area of their study. However, they must also have broad understanding of society and relationships. Character needs to be nurtured as an essential quality which facilitates understanding and fulfilling responsibilities as an engineer, a citizen and a human being. The main objective of any education system is to impart knowledge, skills and attitude . Most of the time, nurturing a good attitude is ignored due to the pressure of curriculum . When new students enter an institution, they come with diverse thoughts, backgrounds and preparations. It is important to help them adjust to the new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them, society at large and build character. The presentation started with a video of SSA where students from across the country are reaching school with lot of enthusiasm and zeal to learn. It highlights the difference between the ideal and the real situation of education in our country. The second video 'The story of two seeds' attempts to motivate people to break free from inhibitions and come forward to learn.

The following are the components suggested by the AICTE / JNTUH for the three week Induction programme.
1.Physical Activity   2.Creative Arts
3.Universal Human Values   4.Literary Activities
5.Proficiency Modules   6.Lectures by Eminent People
7.Visits to Local Area   8. Familiarization with Dept & Innovations

1. Health is as important as money and career for any human being. Physical activity will keep body and mind fit. As part of physical activity students can attend sessions on yoga, meditation, aerobics, play sports and games, involve in campus cleaning , Haritha Haram etc. NSS and Nature club can play an active role along with the physical director in conducting these activities.

2. Creative arts act as stress busters and help in channelizing the energy of students in a positive way. They enhance the creativity and promote aesthetic sensibilities in students. Visual arts, performing arts , drawing, painting, dance, music, clay modelling, making videos, Posters, Creating web pages etc. These activities promote team spirit in students.

3. The Universal Human Values component, which acts as an anchor, develops awareness and sensitivity, feeling of equality, compassion and oneness, draw attention to society and nature, and character to follow through. It also makes them reflect on their relationship with their families, connects students with each other and with teachers so that they can share any difficulty they might be facing and seek help. Motivational videos and films can be shown along with group discussions and guest lectures.

4. Language is the medium for communicating our thoughts, emotions and feelings to others. Literary activities like creative writing, skits, review of art, debates, group discussions, poetry and short story writing ,solving crossword puzzles, making taglines for advertisements, drama, enacting a play, making short films in the mother tongue or any other language will enhance the communication skills of students. It also facilitates learning in other subjects.

5. Proficiency modules in subjects like English , Mathematics, Physics , Chemistry, BEEE and computer basics and other relevant subjects should be included in the induction programme. Use of Engineering calculator can also be taught. This will help in bridging the gap between   Intermediate and Engineering courses. An assessment test can be given before teaching the modules and an achievement test can be conducted at the end .

6. Lectures by Eminent people can be arranged once a week in areas like Personality development, Time Management, Soft Skills, Counselling, Career Guidance etc . This will expose the students to various aspects of human life and career.

7. Visits to local area can be arranged once a week. A couple of visits to the landmarks of the city, or a hospital or orphanage could be organized. This would familiarize them with the area as well as expose them to the under privileged.NSS and NCC units can take the initiative to organise the trips. After each visit, students should be asked to give oral presentations in the language of their convenience. This helps in sharing experiences and views with others.

8. Familiarization to the department is essential to make the students understand the   objectives of the stream of engineering they selected. They should know about the role it plays in society, through its technology. They should also be shown the laboratories, workshops & other faculties. Orientation about internships and projects can also be included.

Suggested Schedule:

• Creative Arts – One hour (every day)
• Proficiency Modules – One hour (everyday)
• Sports / Yoga– Two hours (every day)
• Literary Activities - One hour Every day
• Lectures by Eminent People- Two Hours (every week)
• Personality Development – One hour (every week)
• Visits to Local Area – Once every week
• Familiarization to Dept. & Innovations- One hour (every Week)

Imparting Human Values

The ultimate goal of any educational endeavour is to prepare a human being for a life and career in a harmonious way. Education should facilitate the development of competence to live with human behaviour acceptable by society. But the present system of education is creating a lot of pressure on students by focusing only on academic achievements.   The emotional well being of the students and personality development is neglected. The world is developing at a rapid pace and technology in leaps and bounds. But there is lot of conflict in our lives and the society we live in. Only in a peaceful society development has some value. The role of education is paramount here. Education should help a student understand the right way of behaviour and help them to balance all the relationships in a proper way. Human being is a co-existence of body and self. Requirement of body is concerned with providing physical facilities. Happiness is the ultimate goal of self which can be attained by proper understanding of human relationships and controlling feelings and emotions.   Human life is a network of many relationships. Maintaining positive relationships is the basis for harmony in our society. Let us look at the list of relations and feelings.

Common Relationships

• I and Parents   I and Siblings   I and Friends   I and Teacher   I and Spouse
• I and Children   I and Boss   I and Society

Definite Feelings

Trust- It is the belief that the other person wants to make you happy.
Respect -Right evaluation of a person, neither under nor over evaluation.
Affection -   Accepting the other person with their background and short comings
Caring - To provide physical facilities for people dependant on us
Guidance - Providing care with concern
Reverence – The feeling of acceptance of excellence
Glory –The feeling of appreciation for people who are making an effort to achieve excellence.
Gratitude -   Feeling of concern for those who contributed to my excellence
Love –The feeling of connectedness to another person due to a relationship

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Methodology of teaching this content is extremely important. It must not be through do's and don'ts, but get students to explore and think by engaging them in a dialogue. It is best taught through group discussions and real life activities rather than lecturing. All these values can be taught using motivational videos, discussing incidents, giving real life examples, skits, street plays preparing posters , making short films etc.

Session-II   Effective Mentoring

Ms. G. B. Kadambari Devi, Assoc, Professor, Faculty of English, Dept. of H&AS, made a presentation on Effective Mentoring during the FDP on Promoting Professional Learning. She focussed on how real education flows from the teacher to the taught and brings harmony and peace to the world. She said that the teacher finds his or her self in the student through the transfer of knowledge, and the student discovers his or her higher self through the Preceptor. She also made a point that is noteworthy, that 'the teacher and the taught are two aspects of the same reality.'

Moving on towards the concept of Teacher in the world of Mentoring, Ms Kadambari Devi, stressed that the ideal teacher must possess certain impeccable qualities like sincerity and kindness. The teacher must possess such a personality that he or she must remain a role model for his or her students. The teacher must know his/her subjects thoroughly, but at the same time should not hesitate to say 'I don't know the answer at this point of time, I will find out and let you know.' Not knowing the answer and bluffing in the class is total insincerity and the teacher will lose the confidence of the students in the class. The teacher must keep his or her ego in control or else he or she is in danger of becoming a dictator in the classroom. Also, the teacher's kindness will ensure that he or she will never abuse the sacred relationship with the students. Being responsible is one of the important traits of a good teacher: A good teacher, of his/her own free will shoulder the responsibility of his/her students.

Along with all these, the real hallmark of a sensible teacher is the desire to inculcate team spirit among his/her students. Ms Kadambari Devi ended the session with a look at 'goal setting' as a concept. Mentors should find out what their students want to do. Most students do not have any goal in mind because nobody has asked them about it and somebody else, parents, guardians, or senior relatives, have always decided for them. The student has no freedom of choice. It is the responsibility of the mentor to talk to the student and see what can be done at this stage to at least provide some outlet for his or her creative impulses or other interests. This will go a long way in restoring confidence in the student, she said in conclusion.

Session –III Outcome based Pedagogic Principles for Effective Teaching

Outcome Based Education is a way to structure content around activities that lead to demonstrable proficiency of a specific skill, knowledge, or behaviour. As a learning model, outcome based education focuses on what a learner needs to do to demonstrate mastery of a particular skill, knowledge, or behaviour. This approach highlights the needs of the students in the learning design process. Given that all learning objectives in an outcomes-based education model are clearly spelled out ahead of time, learners know what's expected of them and can adjust their focus and questions more appropriately. An outcome based education model must be flexible enough to adjust to a learner's strengths and weaknesses. Flexibility is also important for providing learners enough time to attain fluency or proficiency.

The main objective of the session was to present a brief account of the Outcome based Pedagogic principles for effective teaching. The session started with a discussion of 21st century education challenges and need for outcome-based learning. The session also dealt with the need for instructional objectives and goal-oriented outcomes. It defined the specific, measurable and achievable outcomes of different domains such as cognitive, psychomotor and affective domains and their cognitive levels. Finally the session ended with a discussion on need for effective evaluation system and item test analysis. Around 200 faculty members from all the departments of ATRI participated in this session.

Session- IV Speaking Effectively

The PPT on Speaking Skills outlined the need for the teachers to make a paradigm shift of content to make it student/listener centric. The success of communication relies on the ability of educator/teacher to present the content that is useful, interesting and learnable. Eg. if students love towatch IPL cricket, celebrities etc then the educators could provide the content as it were. Communication becomes ineffective if the content is ineffective. Communication has two components, Dynamics of Communication and Content of Communication. The NPTEL online course instructor, Prof Anjali Gere, IIT, Kharagpur   introduced the dynamics of communication through various contours of stress, rhythm, intonation and pronunciation activities in the eight week course. Using the right modulation of voice,   the units focussed on making simple conversations; appearing for interviews and making successful presentations.

The presenters took the topic highlighting how to use dynamic content effectively. The three things needed to communicate effectively are: firstly, the educators must thoroughly master the subject, then let the subject get into the heart of the audience and have a clear purpose.

The presenters quoted Gandhi, Mother Teresa, Nelson Mandela whose timeless acts have been accompanied with purity of thought, word and deed and made them effective communicators. A Vivekananda, Nehru, Shastri, an Ambedkar, a Tata, an Ambani rose to be the iconic figures in world's history because they have been effective communicators who connected to their audience. We educators, thanks to the Internet have more vocabulary than Gandhi or Mother Teresa and with   years of experience should be effective educators or will remain ineffective communicators and let pravachan Babas and Spoken English shops thrive with their sundry stuff... Further, it is unfortunate that salesmen do not sell their wares but offer freebies due to lack of effective communication.

ATRI honoured by DELL-EMC as CENTRE OF EXCELLENCE

ATRI established Data Science and Big data Analytics Centre with the support of ICT Academy. The faculty members of CSE, Ms. B. Malathi, Ms. S. Anuradha, Ms.G. Varalakshmi and Ms.K. Jamuna Rani attended the course on Data Science and Big data Analytics and successfully completed the course and passed the examination conducted by DELL-EMC. They are approved by DELL-EMC as Certified Trainers for Big data Analytics. 100 students of ATRI enrolled for the certification course on Big Data Analytics. DELL-EMC approved ATRI as the Centre of Excellence for Data Science and Big-Data Analytics.

The inauguration of ATRI's Data Science and Big-Data Analytics centre was held on 29th June 2018. The CEO of ICT Academy, Mr. M. Sivakumar inaugurated the Big Data Analytics Centre and presented the key-note address. He highlighted the initiatives of ICT Academy and the programmes conducted by the academy for faculty and students. He appreciated ATRI for showing keen interest and efforts taken in establishing the Centre of Excellence. The Director In-charge, Mr. J. Srikanth presided over the inaugural programme and reiterated the need for faculty members to be updated with the latest advancements through faculty development programmes.

Dr. K. Nagajyothi, Dean , R & D and CDC coordinator welcomed the gathering. Mr. M. Sivakumar, the Chief-Guest of the programme presented the award for Centre of Excellence to Mr. J. Srikanth, Director in-charge. The officials from ICT Academy, Mr.Suresh Babu, Regional Head(South India), Mr. Amarnath, State Head(Telangana) and Mr.Balaji, Relationship Manager were present during the programme.

ATRI – Seed Ball Campaign enters the annals of Asian Record Book

With an aim to enhance the depleting green cover and encourage mass plantation in urban spaces, ATRI joined hands to popularize TV9's initiative, Seed Ball Campaign along with NGO Lee Shreyus Foundation. The seed ball campaign is user-friendly, cost-effective and time-saving in terms of plantation of seeds .

Making of Seed Balls

The NSS and Nature Club ARITRI volunteers gathered together along with ATRI faculty members and enthusiastically made seed balls by mixing red soil and manure with water inserting the seeds on 26th July 2018. The seed balls were dried for five days with the aim to throw

them on vacant lands during monsoon. It will germinate shooting out a plant. The advantage of seed balls compared to other planting techniques is that the plants can be grown even in semi-arid areas and mountain regions. 650 seed balls were prepared on a single day by the ATRI volunteers.

Seed Ball Campaign Grand Finale

The seed ball campaign grand finale was held throughout Telangana on 30th June 2018 by TV9 and ATRI was one of the active campaign centres. The grand finale began with a rally which included faculty, students from ATRI along with students from local schools and colleges who finally congregated on the campus of ATRI. Slogans such as the "SEED Balls - Solution for Pollution, "Raise your hands to save Mother Earth" echoed on campus. The students were excited about making Bathukammas using seed balls decorated with flowers. Faculty members and students presented Bathukamma songs on Seed Balls and their importance. They also shared their views about seed balls and how to make the environment sustainable. The entire programme was telecast live by TV9. The seed balls were then thrown into the vacant land and students took seed ball pledge. The adjudicator Ms . Sheetal Reddy announced that the attempt of making 650 seed balls on a single day by ATRI has been recorded in the Asian Record Book. The award for the record has been conferred to Dr. K. Nagajyothi, Dean – R & D, by the adjudicator. Mr. Venugopal Reddy, NSS officer and Ms. Gita Parthiban, Coordinator, Nature Club also collaborated in making the event a grand success..

DEPARTMENT EVENTS

Department of English

Workshop -English in the Technical Education Classroom :Encountering New Challenges

The Faculty of English, Department of H&AS held a two-day workshop on 28 and 29 June 2018. AICTE's new proposals for revision of the English syllabus for technical education courses for the academic year 2018-19 provided the initial impetus for this workshop. The Faculty of English, Dept. of H&S, took this opportunity to bring together English faculty from engineering and degree colleges and schools on one platform to discuss the new proposals and to interact with subject experts in the field.

The objectives of this workshop were based on the model curriculum proposed by AICTE, focussing specifically on error identification, analysis, and correction, improving English proficiency, developing basic writing skills among students, and improving the nature and style of sensible writing.

The workshop began with a brief inauguration ceremony presided over by our Director, Prof. J. Srikanth. Dr B. Sandhya Rani, Professor, rendered the invocation song and welcomed the guests and delegates and spoke about the genesis of the workshop. Ms K. Ahalya, Asst. Professor, introduced the resource person for the first day, Dr Santosh Mahapatra, Asst. Professor,BITS Pilani, Hyderabad Campus, to the audience. Prof. J. Srikanth spoke briefly about the need for revision of syllabi at regular intervals and necessity of workshops of this kind for discussions and interactions. Prof. Srikanth welcomed DrMahapatra with a flowering plant. Dr S. Jayasrinivasa Rao, Professor and co-convenor of the workshop, spoke on the theme of the workshop and what the delegates could expect in the four sessions planned for them. Dr Rao also proposed the vote of thanks and invited the guests and delegates for tea.

DrMahapatrastarted his morning session, Error Identification, Analysis, and Correction, by talking about the difference between accuracy and fluency, and between mistake and error. What to correct and how much to correct are the dilemmas that face every teacher, he said. DrMahapatra suggested interesting ways of error analysis and correction through different kinds of teaching materials, through group work, and different correction strategies. He also introduced the British National Corpus to the participants as a measurable yardstick to check errors. This was much appreciated by all the participants.

During the afternoon session, Dr Mahapatra focused on Improving Oral English Proficiency, and introduced the concept of 'Rubrics for note-taking.' He demonstrated through various examples how oral English proficiency could be improved through listening comprehension, engaging in conversations, interviews, and formal presentations. The participants brought in their own experiences of error analysis and correction and improving proficiency to their discussions during both sessions, making Dr Mahapatra's sessions truly interactive.

In a brief ceremony towards the end of the first day of the workshop, Dr Santosh Mahapatra was presented with a customized memento as a token of appreciation and remembrance. Dr B. Sandhya Rani proposed the vote of thanks.

The second day of the workshop began with a short inaugural ceremony. While Dr B. Sandhya Rani welcomed the participants, Ms G.B. Kadambari Devi, Associate Professor, introduced the resource person for the second day of the workshop, Dr Shruti Sircar, Professor, Dept. of Linguistics & Contemporary English, The EFL University, to the audience. Prof. J. Srikanth, our Director, and Dr M. C. Ajay Kumar, Head, Dept. of H&AS, welcomed DrShrutiSircar with a flowering plant.

Dr Shruti Sircar began her session on Reading Comprehension by quickly going over the time-tested processes like skimming, scanning, and intensive and extensive reading. She then went on to discuss understanding comprehension at an academic level, failures in reading comprehension, and complexity of languages. The session came to a close with a discussion on multiple-choice questions as a diagnostic tool. The afternoon session on Nature and Style of Sensible Writing began with Dr Shruti Sircar displaying an image that generated a range of responses from the participants. An analysis of these responses led to a discussion on fact, interpretation, and evaluation. The discussion moved on to idea of 'coherence,' with Dr Sircar explicating it through concepts like logical bridges, verbal bridges, and chronological order. Dr Sircar closed the session with a detailed discussion on 'Definitions.' These two sessions were enlivened by worksheets whose tasks generated a great deal of interaction among the participants and between the participants and the resource person.

The second session was followed by a brief valedictory. Prof. J. Srikanth, our Director, presided over the ceremony. After Dr B. Sandhya Rani welcomed the gathering, Dr S. Jayasrinivasa Rao presented a brief report of the sessions. Prof. JSrikanth expressed his appreciation to the resource persons who had responded to our invitation and the delegates who had participated in the workshop. He congratulated the Faculty of English for the successful conduct of the workshop. Prof. J. Srikanth, Dr M.C. Ajay Kumar and Dr Shruti Sircar presented participation certificates to all the delegates. Dr Shruti Sircar was presented with a memento as a gesture of our appreciation. Dr P. Bharathi, Professor & co-convenor of the workshop thanked the resource persons, participants, and support staff.

Department of Computer Science & Engineering and Information Technology

Faculty Development Programme on Data Science and Analytics

The department of Computer Science and Engineering and Information Technology organized a five day Faculty Development Programme on "Data Science and Analytics " from 30th June to 3rd july ,2018.Dr.S.Venkatesan was the Resource person .The Programme was inaugurated in the morning by the Director Mr. J.Srikanth and he addressed the gathering. In her welcome speech, the Head of the Department shared her views with the faculty participants, that the new Emerging Technologies like Data Science and Analytics will be very helpful in the real time applications, academic curriculum and for research. She thanked Dr. S.Venkatesan for accepting her invitation to conduct Faculty Development Programme. Mr .D. Sandeep , Asst. Professor, CSE Dept introduced the speaker. Ms. N. Nirmalajyothi ,Convenor of this programme welcomed the gathering and briefed about the scope of the workshop.

TECHNICAL SESSIONS

Day-1   Session I:
The Session started at 10:00AM with an introduction to Big data characteristics, identifying   four business drivers for advanced analytics and went on to distinguish the techniques for Business Intelligence from Data Science and role of the Data Scientist within the new big data ecosystem.

Day -1 Session II :
After the lunch break the second session started at 2:00PM with a practice of R-Programming. Faculty were given training in Vectors , data frames and matrix operations.

Day-2 Session I:
Data Analytics life cycle through a case study scenario was discussed followed by a tea break .The session continued with identifying main deliverables in an analytics project.

Day-2 Session II (Hands on Session):
After the lunch break, second session started with a practical session of R-Programming. Faculty learned how to work with control statement, creating and defining functions, working with date and time and string manipulation functions.

Day-3 Session I:
On the third day, the speaker covered the topics, Usage of basic analytics methods such as distributions, statistical tests and summary operations to investigate a data set,   Use of R package as a tool to perform basic data analytics, reporting, and apply basic data visualization techniques to data, applying basic analytics methods such as distributions, statistical tests and summary operations, and differentiate between results that are statistically sound vs. statistically significant, identifying a model for data and defining the null and alternative hypothesis.

Day- 3 Session II   (Hands on Session):
In the afternoon session the participants enjoyed the session by plotting different graphs using R-Programming.

Day-4 Session I:
Fourth day of FDP started with a session on Advanced Analysis concepts. In the morning session speaker explained the data mining concepts clustering, classification, Association Rule mining and Time series Analysis.
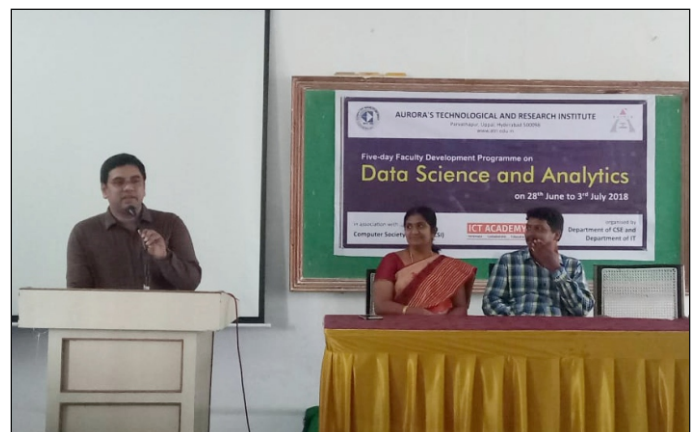
Day-4 Session II (Hands on Session):
In the afternoon session ,the faculty experienced k-means algorithm usage and time series analysis using R-Programming tool.

Day-5 Session I:
On the last day of Faculty Development Programme, articulating the tasks needed for an analytics project was discussed along with common deliverables of to operationalize an analytics project and   an analytics lifecycle project to meet the needs of key stakeholders. Faculty interacted with the resource person and discussed the Applications on Data Analysis .

In the Valedictory session   Director   I/c Mr.Srikanth Jatla , Head of the Department CSE,IT and the resource person were present on the dais. The highlights of the Programme were presented by N.Nirmalajyothi, Associate professor, CSE Dept. As a token of appreciation ,Director presented a memento to the resource person Dr.S.Venkatesan, Professor, CSE Dept, ATRI. Finally certificates were distributed to the participants and they were asked to come on to the dais to share their experience about the learning of the whole programme. Feedback was collected from the participants. The programme ended with vote of thanks by N.Nirmalajyothi, Associate professor, CSE Dept .

Department of Mechanical Engineering

FDP on Role of Machine Drawings in Manufacturing Industries

The Department of Mechanical Engineering in collaboration with 'The Institute of Plant Engineers' (IIPE) organized a one day FDP on " Role of Machine Drawings in Manufacturing industries " on 20th June 2018.The resource person was Er. A Sridhar Kumar GM (retd) HMT. The FDP focussed on the importance of Machine Drawing in manufacturing industries and how engineers are supposed to use the knowledge practically. Machine drawing may be defined as the representation of a machine component or machine by lines according to certain set rules. A machine drawing generally gives all the external and internal details of the machine component from which it can be manufactured. The machining symbols, tolerances, bill of material, etc. are specified on the drawing. The-relative position of the different components and to make assembly drawing are also specified. It is difficult for one to manufacture a component without knowing what shape and size it is to have. It becomes even more complicated when the product being manufactured has more than one part involved. Machine drawing helps make it easier by educating engineers about the rules, approaches and conventions involved in making such drawings which are then used by production engineers to manufacture a dimensionally correct and functionally reliable product. The faculty were made aware of the critical aspects involved in Machine Drawing and the irreplaceable role it plays in industry. The faculty were also made aware of the expectations of the industry from engineers in both the present and future The faculty plan to pass on these teachings to their students and help ensure that the engineers who pass out from the department are ready to meet the requirements of the industry.

Workshop on Analysis of Pressure Transient systems

The Department of Mechanical Engineering organized a one day workshop on 'Analysis of Pressure Transient systems' on 27 June 2018.The workshop was conducted by Dr C.V.KameshwarRao ,Professor, Department of Mechanical Engineering, Osmania University . He provided an exceptional lecture bringing to the fore an aspect of engineering that's relatively modern and not that well known in spite of its critical importance to the field. Pressure transients can damage complex flow systems by mechanisms such as hydraulic hammer and cavitation. These transient conditions can occur during normal operation of the system or during unplanned, emergency shutdown events. Comprehensive models of the fluid rheology, as well as dynamic analyses of pressure wave propagation, are required to understand the conditions that lead to transient events and how the resulting event could impact the performance and integrity of the flow system. In cases where significant heat loss or gain occurs in the flow system, phase changes in the fluid or changes in the solubility of gases in a liquid could result in the creation of gas and liquid phases that further complicate the system's behaviour. This detailed analysis of the flow system is required to select and implement protective equipment such as accumulators and check valves to minimize the impact of transient conditions. This equipment selection process must further consider ambient operating temperatures which can affect the rate of activation or the durability of components of protective equipment such as elastomeric seals and bladders that become brittle at low temperatures. The number of professionals specializing in pressure-transient testing is relatively small. Thus, those who become proficient in it will likely remain in demand throughout their careers as key technical resources in operating or service companies. The faculty were thankful to Dr KameshwarRao for his expertise and inputs and also his willingness to share his knowledge with them and hoped they too could impart it to their students.

NSS ACTIVITIES

Save the Girl Child

ATRI NSS UNIT conducted an awareness programme and a ally on 'Save Girl Child' (Beti Bachao- Beti Padhao) on 23-6-2018 in campus and paravathapur village ,All the volunteers and NSS adopted school children participated in this programme .The main objective of the programme was to create awareness among the people about the importance of girl child .The bigger objective was to discourage them against female foeticide ,a cancer for the society .There was lot of enthusiasm among the students about the programme. The banners, placards and slogans carried by them contained impressive messages on themes like Beti Bachao –Beti Padhao, Save Girl Child - Educate Girl Child , Girls are the Pride of the country, if a girl survives, the earth will survive and so on. The rally passed through the entire village. All the volunteers actively participated under the guidance of NSS Programme Officer , D.Venugopal Reddy.

Swachh Bharat Summer Internship

To engage youth across the country and develop their skill and orientation for sanitation related work and village level development, the Prime Minister of India introduced Swach Bharath Campaign on 2nd October 2014 and encouraged citizens to devote at least 100 hours to Swachhata through the year. The Ministry of Human Resource Development in association with the Ministry of Drinking Water and Sanitation has launched the 'Swachh Bharat Summer Internship – 100 Hours of Swachhata'.

The program aims to:
·Develop the skill and orientation of youth for sanitation related work
· Give youth across the country an opportunity to make a significant contribution to the swachhata revolution
·Integrate youth in the community service in rural areas in the run up to the 150th birth anniversary of Mahatma Gandhi
NSS unit of ATRI has taken the initiative to conduct the Swatch Bharat summer internship progamme at the adopted village Qutubullapur from 18-06-2018 to 30-06-2018 , 30 volunteers participated in this programme .Each volunteer contributed 100 hours to swatchhata related activites in this village.

Activity 1:As Mahatma Gandhi said "The future of India lies in its villages" The volunteers have cleaned the streets, roads, garbage in the village and created awareness among the villagers about cleanliness and also gave suggestions on how to motivate and spread the news of swatch bharat among the neighbourhood.

Activity 2: Plastic products in the environment adversely affect surroundings and also disturb human life and domestic life too. So the volunteers of NSS took the initiative and cleared the plastic in the village and motivated them to use jute bags instead of plastic bags. The villagers were motivated when they were explained about the disadvantages of plastic .The villagers supported the campaign by avoiding usage of plastic ,making the village a plastic free one.

Activity 3: Creativity is the key to success in future, and primary education is where we can start from. So, to create awareness about Swatchtha, we conducted an awareness programme for the Government school students and conducted a rally on Swatch Bharat and raised slogans like "Cleanliness is next to Godliness"," Say no to Open defecation", "Swachh Bharat Swachh Vidyalaya" and etc.

Activity 4:As we mentioned above cleanliness is next to godliness, we volunteers started cleaning the temples in the village and also cleaned the Grampanchayat office as these are the important places for the villagers. We also cleaned the community hall and created awareness among the people living there to keep their premises clean and neat.

Activity 5:The fifth activity was creating awareness among the villagers regarding the distribution of blue and green buckets and their usage by throwing the dry wastage into green bucket and wet wastage into the blue bucket so that the wastage is separated and it can be used further as pesticides and manure to grow plants.

Activity 6:On the last day of our internship we created awareness about the swatch sarvekshan app and its use, and its role in solving problems.

ALUMNI MEET

ALUMNI Coordinator : Girija Rani Suthoju
Assistant professor, CSE

On 04 June 2018, Mr. Vivek Kovvuru from Washington D.C., an alumnus of the Department of CSE, who is very proficient in Hadoop Programming, Hadoop Administration, Data Warehousing and Mining, visited ATRI and shared his experiences with our final year students of CSE and IT. He has professional certifications in IBM certified Hadoop Administration and IBM certified Hadoop Programming.

Mr Vivek Kovvuru is an Academic Associate with DB2 Database and Application Fundamentals. Mr Vivek Kovvuru works in Washington D.C. and plans a start-up soon in India. As an entrepreneurial initiative, he also invited our students to become a part of this soon-to-be launched start-up.

Mr. Vivek Kovvuru interacted with our students and advised them to concentrate on latest technologies, gave them pointers on landing a good job and shared all his experiences and heaped generous praise on the ATRI support system in and outside the college.

FACULTY ACHIEVEMENTS

- Mr B.AnilKumar, HoD, Department of Mechanical Engineering published a paper titled 'Investigation on Performance and Emission Characteristics of Low Heat Rejection Diesel Engine using Alternate Fuels' in the International Journal of Thermal Technologies on 30 June 2018(Vol.8, No.2).

- Mr. Pranav Ravindrannair, Assistant Professor, Department of Mechanical Engineering presented a paper titled 'Thick film Copper deposition on FDM processed ABS parts using Aluminium Charcoal deposition process' at the National Conference on Advances in Mechanical Engineering (NCAMENT-2019) organized by the Department of Mechanical Engineering, Osmania University College of Engineering on 29- 30 June 2018.

- Mr. Pranav Ravindrannair, Assistant Professor, Department of Mechanical Engineering presented a paper titled 'Parametric Optimization of hardness and surface roughness of a friction stir welded joint by making use of data envelopment approach' at the National Conference on Advances in Mechanical Engineering (NCAMENT-2019) organized by the Department of Mechanical Engineering, Osmania University College of Engineering on 29- 30 June 2018.

- Dr. P. Bharathi, Professor of English attended a three day workshop "To Train the Trainers for the Implementation of Induction Program in the Affiliated Colleges of JNTUH" (Under TEQIP-III) at JNTUH Kukatpally from 17- 19 May 2018.

- Ms. B. Malathi , Associate Professor of CSE attended a three day workshop "To Train the Trainers for the Implementation of Induction Program in the Affiliated Colleges of JNTUH" (Under TEQIP-III) at JNTUH Kukatpally from 17- 19 May 2018.

- Ms. M. Sowmya , Assistant Professor of CSE attended a three day workshop "To Train the Trainers for the Implementation of Induction Program in the Affiliated Colleges of JNTUH" (Under TEQIP-III) at JNTUH Kukatpally from 17- 19 May 2018.

- Ms. N. Nirmala Devi, Associate Professor of ECE attended a three day workshop "To Train the Trainers for the Implementation of Induction Program in the Affiliated Colleges of JNTUH" (Under TEQIP-III) at JNTUH Kukatpally from 17- 19 May 2018.

- Ms. Ch. Sushma1 , Ms .K.Padmini2 published a paper titled 'Digital Halftoning Visual Cryptography' in IJCRT , Volume 6, Issue 2 April 2018 | ISSN: 2320-2882.
  Assistant Professor1, Associate Professor2 Department of Computer Science and Engineering, Guru Nanak Institutions Technical Campus , Department of Information Technology, Aurora's Technological and Research Institute.

- Ms. Anuradha .S1, Navya .S2, Sunil Ramana .V3, Yeshwanth Kumar .N4, Yeshwanth .G5 Associate Professor1, B.Tech Student 2, 3, 4, 5 Department of Computer Science Engineering Aurora's Technological & Research Institute, published a paper titled 'Online Based Social Question and Answer System' in the International Journal of Engineering Science and Computing, April 2018, Volume 8 Issue No.4.

- Ms. Anuradha S1, Niharika A2, Manaswini G3, Manisha N4 , 1 Associate Professor, 2,3,4 Students, Dept. of Computer Science Engineering, Aurora's Technological & Research Institute, published a paper titled ' Efficient Support Itemset Mining using Parallel Map Reducing' in the International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 05 Issue: 04 , Apr-2018 .

- Mr. K. Niranjan, Assistant professor, EEE attended an FDP conducted by IIT Hyderabad from 12-30 June 2018 conducted in different Phases.

- Mr. Sindhu, Assistant professor, EEE attended an FDP on Objectives Based Education organised at Spoorthy Engineering College from 18-23 June 2018 conducted in different Phases.

ALUMNI TALK

"Engineers like to solve problems. If there are no problems handily available, they will create their own problems." I was one among those computer science engineers in ATRI, who used to troubleshoot a program with lot of problematic inputs and trouble the professors with lot of questions which made me to understand every small thing in real time.

ATRI has been more like a family to me where it was not only a study of 45 subjects but it was more about the moral studies of intellectual life. I was appointed as "Chief Technical Class Representative" for one of the sections in CSE Department, for my meritorious grades, which gave me a scope to improve my leadership capabilities and network with all the students. I was competent in understanding the problems and consistently showed problem solving skills which made me one among the competent programmers in our college.

I believe that, "No one wants to learn by mistakes, but we cannot learn enough from successes to go beyond the state of the art", which made me to demonstrate interest towards co-curricular activities apart from my studies. I was the Microsoft Student ambassador for our college and also an active participant in IEEE Computer Society activities being responsible for a great conduct in organizing technical sessions at the college.With all the knowledge acquired, I was proud to be the lead of Microsoft Student ambassadors across AP and Telangana, which further enabled me be to bethe"National Finalist" in Microsoft Imagine Cup 2014 representing our college.

I strongly believe that an engineer should demonstrate good communication skills along with the technical knowledge acquired, which inspired me to be a speaker at "Blogging and Ethical Hacking" workshop conducted in the college for which I received a great applaud. Many of the Professors opted me for the "Best Student of the Year" honor. Recently I was also awarded with "Best Alumni" award for my support as an alumni by providing placements to the juniors for two successive years.

I am very happy to have such an incredible environment to support me for all my achievements at ATRI,which made me able to secure a large portion of the occupations after my under graduation. I believe that the mentoring and training capabilities by the professors were exceptionally uncommon and they were an added asset in enhancing my all-round personality.

Apart from that, I am proud to be a Masters of Computer Science graduate from University of Nebraska, Omahawho was able to secure Graduate Assistantship and Scholarship in the student career. Finally, now I am doing a full time job in United States in C# .NET as Senior Software Developer and I sincerely thank all my professors who made me stand where I am today. Thehappy days in my life are the moments I spent at ATRI with all my buddies. I miss the college, friends and all myprofessors, but always my love for college keeps growing.I sincerely thank the professors for allowing me a chance to share my thoughts with all of you.Enjoy every moment of your life and achieve success in your area of interest.

Your level of success is determined by your level of discipline and perseverance

ARTICLE

WRONG FOOD COMBINATIONS

Fruit After a Meal
Fruits contain sugars that require minimum or no digestion. Hence they will not stay in the stomach for long time. However starch foods and fats will stay in stomach for long time due to delayed digestion. So when fruit is consumed after a meal, the fruit sugar will stay in stomach for long time and ferment leading to toxins.

Oatmeal with Milk and Orange Juice
Acids in the orange juice destroy the enzyme responsible for digesting starch present in the oatmeal. Also orange juice curdles milk and turns it to heavy mucous-forming substance. Orange juice should be taken 30 minutes before oatmeal.

Bananas and Milk
This combination is heaviest and toxin forming. It creates heaviness in the body and slows down the mind. Cardamom and nutmeg to be added to the milk based banana smoothies to stimulate digestion. (Bananas should be very ripe)

Yoghurt and Fruit
Yoghurt contains plenty of bacteria which will act on the sugar present in the fruits. This results in toxins causing cold and allergies. Instead of fresh fruit, cinnamon or raisins can be added.

Burger and Fries
Trans fats in these food items will lower blood sugar levels making feel tired and sleepy.

Pizza and Soda
The carbohydrates in the pizza along with the proteins and starch take up a lot of the body energy for digestion. Sugar in the soda slows down digestion and other stomach processes.

Olive Oil and Nuts
This combination makes sick because protein in nuts and fat in olive oil do not mix. Raw fat gets digested preventing digestion of proteins.

Lemons and Cough Syrup
Lemons block enzymes that are required to breakdown the drugs. Due to lack of breakdown, medicine can buildup in bloodstream can seriously cause side effects.

Palak and Cottage Cheese
Palak Paneer is a very tasty and nutritious food preferred by most of the people. Both palak and cottage cheese contain large amounts of calcium causing bladder or kidney stones. Hence when the food containing this combination is consumed, plenty of water should be consumed to prevent the formation of stones.

Dr. K. Nagajyothi
Dean, R & D

GALLERY

Believe in yourself and you will be unstoppable

Excellence is the gradual result of always striving to do better

ATRI IN MEDIA

విద్యార్థులకు సాంకేతిక పరిశోధనలు అవసరం

అరోరా కళాశాలకు ఈఎంసీ ఎక్సలెన్సీ సర్టిఫికెట్ను అందజేస్తున్న ఏసీటీ ఇండియా సీఈవో ఎం.శివకుమార్

మేడిపల్లి : ఇంజినీరింగ్ విద్యార్థులకు సాంకేతిక పరమైన పరిశోధనలు ఎంతో అవసరమని ఏసీటీ ఇండియా సీఈవో ఎం.శివకుమార్ అన్నారు. పర్వతాపూర్‌లోని అరోరా టెక్నాలజీ అండ్ రీసెర్చ్ ఇన్‌స్టిట్యూట్ డెల్ స్టార్టెడ్ ఆఫ్ ఎక్స్‌లెన్స్ ప్రోగ్రాం కింద డెల్ ఈఎంసీ ఎక్సలెన్సీగా ఎంపికైన సందర్భంగా ఆయన ముఖ్య అతిథిగా హాజరై మంగళవారం కళాశాలలో డెల్ ఈఎంసీ సెంటర్‌ను ప్రారంభించారు. అనంతరం ఆయన మాట్లాడుతూ.. ఈ సెంటర్‌ను నిర్వహించి వర్క్‌షాప్, సెమినార్లతో విద్యార్థులలో పరిశోధన వైతన్యాన్ని మరింత ప్రజ్వలింపజేస్తాయన్నారు. కార్యక్రమంలో కళాశాల డైరెక్టర్ శ్రీకాంత్‌జట్ల, ఈమర్‌నాథ్, సురేష్‌బాబు, నాగజ్యోతి తదితరులు పాల్గొన్నారు.

ప్లాస్టిక్ నిషేధం.. అందరి బాధ్యత

గ్రామ వీధిసందులను స్వచ్ఛం చేస్తున్న విద్యార్థులు

ఆడపిల్లల సంరక్షణపై ర్యాలీ

ర్యాలీ నిర్వహిస్తున్న విద్యార్థులు

మేడిపల్లి: పర్వతాపూర్‌లోని అరోరా టెక్నాలజికల్ అండ్ రీసెర్చ్ ఇన్‌స్టిట్యూట్ ఎన్‌ఎస్‌ఎస్ విభాగం ఆధ్వర్యంలో శనివారం ప్రభుత్వ పాఠశాల విద్యార్థులతో పర్వతాపూర్‌లో ఆడపిల్లల సంరక్షణపై ర్యాలీ, అవగాహన కార్యక్రమాన్ని నిర్వహించారు.

పర్వతాపూర్‌లో ఆడపిల్లల సంరక్షణపై ర్యాలీ

మేడిపల్లి: ఆడపిల్లల పై జరుగుతున్న అత్యాచారాలను, స్త్రీ వివక్ష, గృహ హింస లాంటివి అరికట్టాలని పర్వతాపూర్‌లోని అరోరా ఇంజినీరింగ్ అండ్ రీసెర్చ్ ఇన్‌స్టిట్యూట్ ఎన్‌ఎస్‌ఎస్ ప్రోగ్రామ్ డైరెక్టర్ వేణుగోపాల్ రెడ్డి అన్నారు. గ్రామంలో కళాశాల ఎన్‌ఎస్‌ఎస్ విభాగం ఆధ్వర్యంలో ఆడపిల్లల సంరక్షణ పై అవగాహన కార్యక్రమాలతో పాటు స్థానిక ప్రభుత్వ పాఠశాల విద్యార్థులతో కలిసి పలు కాలనీల్లో ర్యాలీ నిర్వహించారు.

మేడిపల్లి :పర్వతాపూర్ అరోరా కళాశాలలో యోగా చేస్తున్న విద్యార్థులు, అధ్యాపకులు

బావితల సంరక్షణ అందరి బాధ్యత

ఎన్‌ఎస్‌ఎస్ శిబిరం ప్రారంభం

ఓ విధిలో చెత్త తొలగిస్తున్న విద్యార్థులు

మత్తుల్లాపూర్‌లో నిర్వహించిన ర్యాలీలో విద్యార్థులు

Surabhi, (Ms) Anuradha

MSc (Computer Sc), MTech (Artificial Intelligence & Robotics); *Educationist*; *b* July 1, 1980 Kavali (A.P); *m* Lakshman Kumar B; *Educ* Sri Venkateswara Univ Post-graduate Centre, Kavali, Andhra Univ, Visakhapatnam; specialisation in: Data Mining & Big Data Analytics; Assoc Prof, Computer Sc & Engg Dept, Aurora's Technological & Research Inst, Hyderabad; Life Member, Indian Sc Cong Asscn; Member: International Assen of Engrs, Womenergy, Hyderabad; *publs*—2 Papers published in international journals; *Awards* Teaching Excellence Award; *Address (off.)* Computer Science & Engineering Department, Aurora's Technological & Research Institute, Parvathapur, Uppal, Hyderabad 500039, India; *(res.)* 3-11-2/B, AP Mahesh Bank Line, Ramanthapur Colony, Hyderabad 500013, India. E-mail: anu.surabhi1980@gmail.com

UPCOMING EVENTS

Date	Event
5th – 6th July 2018	Staff Cultural Competitions
13th July 2018	MoU with Imbuedesk
13th July 2018	Release of Technical Journal, ICFAI-IBS
16th – 20th July 2018	Induction and Orientation Programme for Iyear B.Tech students
18th – 23rd July 2018	Career Guidance sessions Imbuedesk
20th July 2018	One Day Technical Seminar on Cement and Building Materials, CE
29th July 2018	Snataka, Convocation Ceremony
23rd July – 28th July 2018	One Week Training Programme on GIS, CE
31st July – 2nd August 2018	Three Day Workshop on IOT, CSE

Inspiring Personality - Che Guevara

Che Guevara was a legendary political activist, who gave his life for the downfall of imperialism and the establishment of socialism. It is through his relentless work that he became the countercultural symbol of rebellion and revolution. Throughout his life, Che guevara held numerous profiles, that of a doctor, author, guerrilla leader, diplomat and military theorist. Since an early age, Guevara was disturbed by the disdainful living conditions of the poor and the hardships they were undergoing. It was his early expeditions that left a deep impact on him and propelled the emotions of anger and resentment which caused rebellion and revolution. It was his belief of creating the consciousness of 'new man' driven by morals rather than material incentives that has made him a revered figure in the history. For the same, he was listed in the TIME magazine's list of 100 most influential people of the 20th century.

World Metrology Day- 20th May

World Metrology Day is an annual celebration of the signature of the Metre Convention on 20 May 1875 by representatives of seventeen nations. The Convention set the framework for global collaboration in the science of measurement and in its industrial, commercial and societal applications. Indeed more widely metrology, the science of measurement, plays a central role in scientific discovery and innovation, industrial manufacturing and international trade, in improving the quality of life and in protecting the global environment. The theme for 2018 is Constant Evolution of the International System of Units. This theme was chosen because in November 2018, the General Conference on Weights and Measures is expected to agree one of the largest changes to the International System of Units (the SI) since its inception. The proposed changes are based on the results of research into new measurement methods that have used quantum phenomena as the basis for standards that are fundamental. The SI will be based on a set of definitions each linked to the laws of physics.