

St. Joseph's Degree & PG College
Department of Physics & Electronics
Annual Report 2016-17

College Reopening:

The College reopened on 2nd June 2016 with a general staff meeting, where in The Principal Rev. Fr. Vincent Arokiadas introduced the new Vice- Principal Rev. Fr. Aarogyam and the newly joined staff members to the faculty. He Briefed about the Almanac of 2016-2017.

The 3rd & 5th Semester classes for Second and Final Years Commenced from 15th June 2016. The First Semester classes for the first years Commenced from 30th June 2016.

Orientation to the Second and Final Years:

The Orientation program to the second and final year students of B. Sc was conducted on 15-06-2016, the re-opening day. Mr D. Srinivas Reddy, Head Department of Mathematics & Statistics, Mrs Kiran Jyothi, Head Department of Computer Science and Mrs L.M.Priya, Head Department of Physics & Electronics oriented the students on their respective curriculum and the significance of project to the final year students and Skill Enhancement Course to the second years. The Faculty of the respective subjects briefed the objectives and outcomes of the subjects briefly to the students.

Date: 30th June 2016

Event: Orientation Programme

Target Group: I B.Sc

GOALS AND OBJECTIVES FOR NEW STUDENT ORIENTATION:

The purpose of the New Student Orientation program at College is to prepare students to be academically successful by:

- Providing information and resources that will allow students to make informed and appropriate academic plans and healthy social choices;
- Creating a welcoming environment that builds a sense of community among the incoming class and connects them to faculty, staff and other students;
- Providing a framework for four years of success through the communication of expectations, norms and standards.

The Program was started with a prayer by Rev.Fr. Aarogyam, the Vice Principal of the college. The Principal Rev. Fr. Vincent Arokiadas in his inaugural address exhorted that the students must sharpen their skills to meet challenges of 21st century impressed upon the students to adopt discipline in their academics as well as social lives in order to become good students.. The Program was graced by the Director Prof. P. L. Visweswara Rao who laid stress on taking up studies seriously as there are ample opportunities for science students to breakthrough into new ventures in his address to the students.

During induction programme the students were provided an insight to the institution, infrastructure and process of academic learning and teaching by Mrs G. Sunitha, Head, Department of Mathematics & Statistics. Mrs Kiran Jyothi, Dean of Sciences, provided enriched inputs on the department, its activities and introduced the faculty to the students. Mr. Satyanarayanarao, Controller of Examinations briefed them about the semester system of autonomy, Continuous Internal assessment, end semester examinations and promotion rules. Mr Basher, alumni shed his experience with the young ones. He spoke about the prospects in adopting B. Sc Course, career opportunities and the corporate expectations. Mr. Prabhu Kumar and Mr. Dilip of final B. Sc shared their experiences with the freshers.

An Ice-breaking session was well organized by Mrs. Shailaja, Mrs. Swathi and Mrs. Haripriya wherein students participated enthusiastically. The entire event was well-coordinated by Mrs. L.M.Priya, Head, Department of Physics & Electronics.





Faculty-Student Interactive Sessions

Date: 2nd July 2016

Event: Major Project Orientation Programme for III Years

Target III B.Sc (MECs/MPCs)

Purpose: Helping students learn effective in group/Individual projects

Highlights: Application Scenarios

- Including it in the project -brief
- Briefing students on the group/Individual project Selection
- Supervision during the project
- Presentation of the project



Pre-Placement Activity: 2016-17

Department of Science organized a Pre-Placement talk for all B. Sc Third Year students on 2nd July 2016. Mr. M.L.N. Rao, placement coordinator of Science department briefed the students on the support rendered by Placement Cell through CRT program, leading recruiters of the college. Dr.N.Srinivas, Placement officer of the college explained to the students about the procedure of online registration for placements and the rules and guidelines to be followed for registration. He delivered a lecture on Interview Etiquette and positive attitude using audio visual aids also gave tips to face interviews.

Date: 19th July 2016

Event: Science Club- --- **Activity Title:** Word Search

Target IB.Sc (MECs/MPCs)

Purpose: Science Club strives to enrich scientific knowledge and curiosity through an adventurous and challenging curriculum that develops students of character, responsibility, and consciousness ready for challenges in the 21st century.

Highlights:

1. Enlightened about objectives of Science Club
2. Activities of Science Club.
3. Introduced and given ideas about 2016-17 innovative activity that is short film or slider player about E –Waste.
4. Played **Word Search Game** in Physics



Students in Action: Word Search in Physics

Date: 23 July, 2016

Fresher's Day Celebrations

The 23rd of July 2016 was marked as a memorable day in the life of every fresher at St. Joseph's Degree & PG College. The Fresher's day "Bella Accoglienza" was a day that was filled with excitement, joy, music, enthusiasm, laughter and happiness consummating the very purpose of Fresher's Day party to welcome newcomers in a friendly atmosphere and avoid social evils, to encourage their creative impulses to boost their confidence held at Harihara Kala Bhavan, Secundrabad.

Power packed dance performances and a stylish fashion show were the highlights of the Day. The program kick-started with the introduction round and the ramp walk for the contestants of the Mr. and Ms. Fresher 2016. All the participants were well dressed and walked the ramp in their own style in Ethnic as well as western wear, the participants, who had been selected in the first round, entered the second round where the participants entertained the audience for few minutes. The last round of the competition was the 'question – answer' round where the selected

participants answered the questions asked by the judges to win the Titles of Mr. Fresher & Ms. Fresher. The juniors were seen having a great time.





Programme: Seminar

Title of Seminar:

”Recent Developments in fiber communication and its Applications in Telecommunication”

Target Group : B.Sc (Electronics)-2nd & 3rd years-Physics & Electronics students

Date & Time: 10th August 2016 ,1:30PM

Venue: Joseph’s Hall ,Fifth Floor

Objective:

Fiber optic systems are important telecommunication infrastructure for world-wide broadband networks. This Seminar gives an overview of fiber optic communication systems including their key technologies, and also discusses their technological trend towards the next generation.

Resource Person:

Prof. Srinivas Acharya

Department of Electronics and Communication Engineering

College of Engineering,

Osmania University



Programme: Science Club Activity

Month: August

20-08-2016

Activity: Awareness programme on E Wastage management

Purpose: Science Club strives to enrich scientific knowledge and curiosity through an adventurous and challenging curriculum that develops students of character, responsibility, and consciousness ready for challenges in the 21st century.

Venue: Electronics Lab

Details:

- Presentation and interaction regarding e -waste by HoD for students of 3 year and 1st year.
- Students prepared and presented about e waste by using videos and power point presentations.

Date: 16th Aug – 22nd Aug 2016

Campus Recruitment Training (CRT) program

The Placement Cell of the college in co-ordination with placement coordinator of Science Department, Mr. M.L.N. Rao planned and organized Campus recruitment training program for B. Sc final year registered students from 16th August 2016 to 22nd August 2016.

The classes were conducted by eminent professional from the most reputed GLOBARENA institute. The CRT Program is designed to aid candidates who are appearing in campus placements to improve their logical thinking, Analytical skills, Interview skills and personal grooming which are key points in campus placements. The Week long program is scheduled in two sessions as follows

Session-1: 8.30 am to 11.30am

Session-2 12.00 pm to 3.00 pm

Day	Date	Topic	Details
Day 1	16 August FN (8:30 am – 11:30 am)	Module: Personality Development	<ul style="list-style-type: none"> • Motivation & Positive Thinking • Goal Setting -Short Term & Long Term • Time Management & Organizing • Team Building • Ethics & Social Responsibility
	16 August AN (12:00 pm – 3:00 pm)	Module :Quantitative Ability Basic Mathematics	<ul style="list-style-type: none"> • Divisibility • HCF and LCM • Numbers, decimal fractions and power
Day 2	17 August AN (12:00 pm – 3:00 pm)	Module: Personality Development The five-factor model of Personality	<ul style="list-style-type: none"> • Extraversion • Conscientiousness • Neuroticism • Openness to Experience • Agreeableness.
	17 August AN (12:00 pm – 3:00 pm)	Module: Soft Skills Training	<ul style="list-style-type: none"> • Public speaking • Presentation skills • Debating • Body language • Group discussion & Panel Discussion
Day 3	18 August FN (8:30 am – 11:30 am)	Module: Quantitative Ability Applied Mathematics	<ul style="list-style-type: none"> • Profit and Loss • Simple and Compound Interest • Time, Speed and Distance
	18 August AN (12:00 pm – 3:00 pm)	Module: Employability Skills Development	<ul style="list-style-type: none"> • Sector focus activity (Science, Computers & IT, Commerce, Tax & Auditing, Mortgage, Capital Budgeting, Share Markets, HRM, Finance & Marketing...etc.,) • Corporate expectation sessions • Corporate culture & etiquette • Stress Management in work • How to face Job Interviews • CV Preparation
Day 4	19 August FN (8:30 am – 11:30 am)	Module :Quantitative Ability Engineering Mathematics	<ul style="list-style-type: none"> • Logarithms • Permutation and Combinations • Probability
	19 August AN (12:00 pm – 3:00 pm)	Module: English Vocabulary	<ul style="list-style-type: none"> • Synonyms • Antonyms
Day 5	20 August FN (8:30 am – 11:30 am)	Module :Quantitative Ability Logical Ability Deductive Reasoning	<ul style="list-style-type: none"> • Coding deductive logic • Directional sense, Blood relations • Objective Reasoning • Selection decision tables • Puzzles

	20 August AN (12:00 pm – 3:00 pm)	Module: Personality Development Module: Pre-Placement Training	<ul style="list-style-type: none"> • Mock Aptitude Test • Quantitative Test • Mock Group Discussion • Mock Interviews
Day 6	21 August FN (8:30 am – 11:30 am)	Module: English Grammar	<ul style="list-style-type: none"> • Subject-Verb Agreement • Tenses and Articles • Prepositions and Conjunctions • Speech and Voices
	21 August AN (12:00 pm – 3:00 pm)	Module :Quantitative Ability Inductive reasoning	<ul style="list-style-type: none"> • Coding pattern and Number series pattern recognition • Analogy and Classification pattern recognition
Day 7	22 August FN (8:30 am – 11:30 am)	Module: English Comprehension	<ul style="list-style-type: none"> • Inferential and Literal Comprehension • Contextual Vocabulary • Comprehension ordering
	22 August AN (12:00 pm – 3:00 pm)	Module :Quantitative Ability Abductive Reasoning	<ul style="list-style-type: none"> • Logical word sequence • Data sufficiency

Date: 3rd Sept, 2016

Parent Teacher Meet - 2016

The Department Of Science has organized a Parent-teacher meeting on 3rd Sept , Saturday 2016 in the college, from 11.30 am to 3.30 pm. The main purpose of meet was to create a common platform, where teacher and parents come together to enrich the student's educational experiences and discuss variety of issues, regarding all round development of students. The Respective Class In- charges and subject faculty met parents and shared with the parents about the students performance and the attendance. The Department elicited Feedback and suggestions from the parents

Sno	Faculty	Allotted Class	Details/Mentoring
1	Mrs L.M.Priya	2 nd Year MECs & 3 rd year NHAEM	Attendance/Performance in internal Exams/other difficulties
2	Mr. M.L.N.Rao	3 rd Year MECs	Attendance/Performance in internal Exams/other difficulties
3	Mr.Sravan Kumar	1 st Yr MPCs	Attendance/Performance in internal Exams/other difficulties

Student Research

Paper Presentations by Students

- K. Keerthi, T. Vikas presented a paper titled “Improvement and Achievements in Medical Field through ICT” in a two day National Conference on “Information and Communication Technologies Research- Challenges and Opportunities” On 19th and 20th of August 2016 organized by Aurora’s Degree & PG College



Student Achievements



1. Mr. M.N. Sai Kiran of 3rd B. Sc NHAEM bagged Best Photograph award in Heritage Silhouettes Pictures Competition on 3rd Sep 2016 conducted by DCP Expeditions.
2. Mr. Dilip Singh of 3rd B. Sc MECs and Mr. Hari Haran of 1st B. Sc MECs won First Prize in Nukkad Natak /Street Play competition on 10th Sep 2016 in Aurora Cultural Fest organized by Aurora Degree College, Chikkadpally, and Hyderabad.



3. Mr. Syed Ameenuddin of 3rd B. Sc MECs got Selected for National Camp of NCC ARMY ATTACHMENT of NCC ARMY of III (Telangana) Battalion , Hyderabad held at Mehdipatnam, Hyderabad. from 16th to 30th Aug 2016
4. Mr. Syed Ameenuddin of 3rd B. Sc MECs Won bronze medal in the martial Arts event “NAKAYAMA SHOTOKAN” organized by karate international kick boxing association on 10th Feb 2016
5. Mr. Syed Ameenuddin of 3rd B. Sc MECs was Awarded Black Belt in Karate from School of Martial Arts of Volcano Club on 6th Nov 2016.



Science Academies Lecture Series

The Department of Science organized the Lecture Series on “ Role of Mathematical Sciences in Digitalization” on 7th & 8th of September 2016 and was sponsored by Indian Academy of Sciences(IAS), Bangalore, Indian National Science Academy(INSA), New Delhi and National Academy of Sciences(NAS), Allahabad. The Proposal for the Lecture Series to the Three Academy of Sciences got approved on 10th August 2016 and a sum of Rs.1,03,500 /- was sanctioned.

Lecture Series on Role of Mathematical Sciences in Digitalization

The Science Academies Lecture Series Workshop on “**Role of Mathematical Sciences in digitalization**” convened by Prof. V. Kannan, HCU was organized by the Department of Science, St. Joseph’s Degree & PG College King Koti, Hyderabad on 7th & 8th of September 2016. The Lecture Workshop was supported fully by the three National Science Academies: Indian Academy of Sciences, Bangalore, Indian National Science Academy, Delhi and The National Academy of Sciences, Allahabad, India.

REGISTRATION

The registration of the candidates to participate in the Science Academies’ Lecture Workshop “**Role of Mathematical Sciences in digitalization**” was done at 9.00a.m on 07-09-2016. A total of 178 students (including 51 students from our college) and 11 faculty members from 28 colleges registered for the participation in the lecture workshop. Registration materials (workshop file, note pad, pen and ID) including a detailed schedule of the workshop were provided to the participants.



INAUGURATION

The inaugural function of the two - day workshop took place on the first day 7th September 2016 at 9.45 am in Joseph’s Hall with a prayer by Rev. Fr. Aarogyam, the Vice-Principal of the college followed by lighting the lamp. Convener of the Lecture Series Prof. V.

Kannan, School of Mathematics & Statistics, HCU, Hyderabad, Dr. K. Veerbhadra Rao, Department of CSE, OU, Hyderabad, Prof. P. L. Visweswara Rao, the Director of the college, Rev. Fr. Aarogyam, Vice-Principal of the college, Deans of the college, Faculty of the Department, Faculty and students from various colleges of twin cities and five persons from different Media groups attended the Inaugural Function.



Prof. P. L. Visweswara Rao, the Director of the college in his Welcome address stressed on the importance of Science in various fields and the opportunities that are available for Science students. He appealed to young students to involve themselves in research and significantly to the society. Mrs. Kiran Jyothi, Head, Department of Computer Science briefed about St. Joseph's Degree & PG College and the milestones achieved by the college to the audience. Mrs. N. Lakshmi, Coordinator of the workshop expounded the objective of the workshop to the students.



Presiding over the function Prof. V. Kannan, School of Mathematics & Statistics, HCU, Hyderabad and the convenor of the Workshop, in his address spoke on the aims and objectives of Science Academies, the Science education programmes for teachers and students. He said that the workshop is an opportunity for the students not only to know the basics of the subject but also to develop research aptitude among them. He applauded the organizers for arranging the Workshop for the benefit of student community.



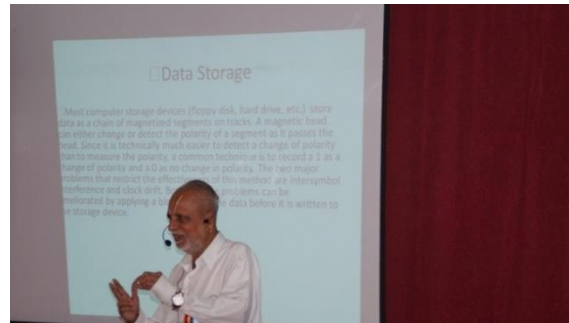
Mrs. G. Sunitha, Head, Department of Mathematics & Statistics who was also the Master of the Ceremony for Day – I Programme elaborated the theme of the workshop and the subthemes and stated that this workshop is a knowledge sharing avenue, and develops research culture in various areas of mathematical sciences. She also oriented the students about the aim, activities of the three Science Academies and also the various journals Published by the three Science Academies. She also proposed the formal vote of thanks and introduced Prof. V. Kannan to the students before the beginning of the Academic Sessions.



Academic Session-I

The Lecture on “Use of Topological Dynamics in three problems of Digitalization” was delivered by the Convenor of the Workshop Prof. V. Kannan. In his opening remarks he stated that Mathematics is a language of science and technology, further said everything in this world is organised and Mathematics has been one of the important reasons behind keeping everything in organised way since ancient times. He also said that the use of Mathematics in digitalization was developed hundreds of years ago by Indians in Rig-Veda (The oldest book of Man time) consisting of Poems which have Mathematical rules. He also explained how Pingala a 4th Century Indian Mathematician in his book Chandas-Sutra used Mathematics for reciting poems where he associated the number 1 for a long syllable and 0 for a short syllable thus

associating a sequence of numbers to each poem hence evolving the Binary Numeral System. He quoted that Pingala's contribution in the field of Mathematics 3000 years ago is tremendous and his vital inventions in this field include Binary numeral System, Meruprastana (Pascal's Triangle), Binomial Theorem.



Moving onto the current topic in his lecture he discussed about the three major problems in digitalization namely Data Compression, Data storage Data security and how different branches of Mathematics especially Topological Dynamics are used to solve these three problems of Digitalization. He explained how Theory of Fractals is used to overcome the first problem namely the Data Compression and Barnsley and Hurd Algorithm using IFS method of fractal generation is used to represent complicated pictures through a relatively small set of data. He also explained how Modified Frequency Modulation method is used to encode the digital data on magnetic media to overcome the second problem namely Data Storage and how cryptography is playing a prominent role to overcome the third problem that is Data Security. The entire Session was very interesting and informative.

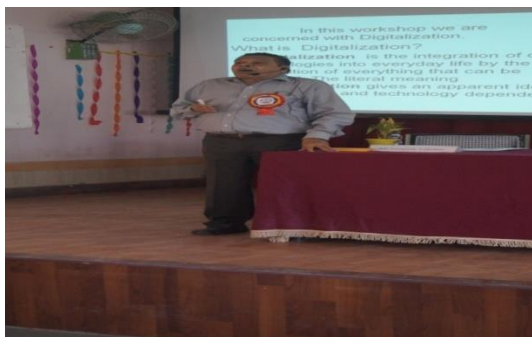
After the Lecture there was a Tea –break for 15 minutes.

Academic Session – II

Mrs. N. Lakshmi of Department of Mathematics & Statistics introduced Dr. K. Veerbhadra Rao, Department of CSE, OU, Hyderabad to the audience.

Dr. K. Veerbhadra Rao delivered a lecture on “The Importance of Statistics for Digital Communication”. In his opening remarks he explained how digitalization and digital technologies became an integral part of day to day life. In his brief lecture he explained what digitalization is, how to digitalize the information, the use of Laplace transform in signal Analysis, and the use of Z-Transforms in digital Analysis and how statistical methods are used in digital communication.

After the lecture there was a lunch break for about 45 minutes.



Academic Session – III

The post lunch session was dedicated to “Computational Physics and the Application of Mathematical Techniques”. Mr. Sravan Kumar from the Department of Physics and Electronics introduced the Resource Person Prof. V.S.S. Sastry, School of Physics, HCU, Hyderabad to the audience.

Prof. V.S.S. Sastry in his opening remarks stated Physics as an analytical science which is critically linked to the contemporary developments in Mathematics. In his lecture he focused on the fascinating role of Physics, Mathematics, and Computer Science emerging to a new interdisciplinary branch as Computational Physics in taking the pursuit of our physical understanding of nature to very exciting levels. He briefly discussed the typical applications of computational physics, how it addresses a variety of theoretical problems and bridges the gap between abstract physical theory and real-world experiments and its inter-disciplinary role along with contemporary Applied Mathematics in evolving advances in Digitalization.

The participants found the lecture very interesting and an active interaction took place throughout the session. With this the first day’s sessions were concluded.



DAY-II

Academic Session – IV

The second day was started with a formal prayer by the students. Mrs. L. Mihira Priya, Head, Department of Physics & Electronics invited the resource person Prof. V. V. Hara Gopal, Department of Statistics, OU , Hyderabad. Ms. S. Vijaya Laxmi from Department of Mathematics & Statistics introduced the resource person to the audience and with a brief introduction to his topic she pulled the audience into the steam.

Dr. V. V. Hara Gopal started off with the topic titled “Data Sciences its relevance and Importance”. In his opening remarks he stressed on the significance of Mathematical Sciences role in Digitalization and the major characteristics called as Data Sciences involved in it. In his lecture he explained the essential skills to be required by a Data Analyst, the role of data analysis in the growth of a company, the significance of Statistical software like Hadoop and R in Big Data Analytics. He analyzed the transition behavior of volatility in the stock price indices of selected countries with the help of a case study “A Study on Financial Time Series during Subprime Crisis” on September 2008 US Subprime crisis.

After the Lecture there was a Tea –break for 15 minutes



Academic Session – V

The second lecture on day-II was on “Satellite Remote Sensing, Applications”. Mr. D. Srinivas Reddy of Department of Mathematics & Statistics introduced to the students the resource person Padmasri Award recipient Prof. Durga Prasad Rao, NRSA, Hyderabad.

Prof. Durga Prasad Rao in his opening remarks stated that Satellite Remote Sensing is playing a key role in our daily life and can be used in different applications. In his lecture he explained to students how the Science of Geoinformatics is developed and used to address the problems of geosciences and related branches of engineering combining geospatial analysis and modeling, developing of geospatial data bases, information system design. He also explained the utility of

satellite remote sensors as major sources of consistent, continuous data for atmospheric, ocean, and land studies at a variety of spatial and temporal scales using a variety of satellite images.

He also briefed about the Geographical Information Systems (GIS), Global Positioning System (GPS) and Remote sensing (RS).

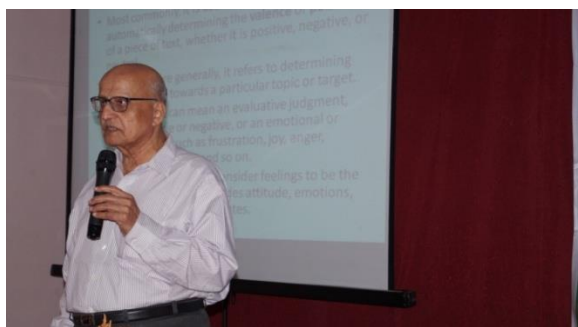
After the lecture there was a lunch break for about 45 minutes.



Academic Session – VI

“Sentiment Analysis / Opinion Mining” was the lecture after post lunch session. Mr. M. L. N. Rao of Department of Physics & Electronics introduced the Resource Person Prof. B. L. Deekshatulu, IDRBT, Hyderabad to the students. Prof. B. L. Deekshatulu in his opening remarks stated that Sentiment Analysis is extremely useful in social media monitoring as it allows gaining an overview of the wider public opinion behind certain topics. He stressed on the applications of sentiment analysis which are broad and powerful. He explained to students the significant role played by Opinion Mining in strengthening digital marketing and how online marketing is getting affected by reviews and opinions of other buyers. He also explained in brief to students how Sentiment Analysis is used to study the News impact on stock price return, Stock Market prediction, Forex Rate Prediction, Churn Prediction, Customer Satisfaction Measurement, Box-office prediction.

The lunch and tea breaks were used by the participants to interact with the speakers personally and clarify their doubts.



Valedictory Session

The two day Workshop on “**Role of Mathematical Sciences in digitalization**” concluded on 8th September, 2016. Prof. B. L. Deekshatulu, Prof. Durga Prasad Rao, Principal Rev. Fr. Vincent Arokiadas graced dais in the valedictory function.



Speaking on the occasion Rev. Fr. Vincent Arokiadas, the Principal of the College appreciated activities of the two days of workshop. He also stated hard work is the only reason behind achievements of all the scientists in their respective fields. He added students must have a proper goal in their life and must also develop research aptitude among them. He expressed his sincere gratitude to all the resource persons for delivering such wonderful lectures. He also felt that these lectures definitely would widen the horizons of domain knowledge of science students. He also took an informal feedback from students. Several students came forward and expressed their opinions.

To mention few of them:

Understood the various applications of Mathematical Sciences

They felt that the titles of the lectures were apt and could get the insight of many things in the area

Many students requested to organise more such events and provide opportunities to participate.

Felt happy to learn the real applications of Mathematical Sciences which could not be taught in class rooms.

All the lectures were informative and useful.



Mrs. N. Lakshmi, the coordinator of the lecture series presented a brief report of the deliberations of the two day lecture series and proposed the formal vote of thanks. The program ended with National Anthem.

The event was covered in two of leading news papers Eenadu, Hans India.



Registration details

St. JOSEPH'S DEGREE & PG COLLEGE
DEPARTMENT OF SCIENCE
SCIENCE ACADEMIES LECTURE SERIES ON ROLE OF MATHEMATICAL SCIENCES IN

DIGITALIZATION

DETAILS OF PARTICIPANTS

S. No	Name Of The College	No of students	No.of Faculty Attended	Total No. of participants Attended
1	St.Joseph's Degree & PG College, King Koti, Hyd	51		51
2	Badruka Degree College, Kacheguda, Hyd	2		2
3	Avanthi Degree College, Narayanaguda, Hyd	5		5
4	St.Anns Degree College, Mehdipatnam,Hyd	1		1
5	Megha Degree College, Ramanthapur, Hyd	5		5
6	Jagruti Degree College, Ramkoti, Hyd	6		6
7	University College of Science,Saifabad, Hyd	4		4
8	G.Pulla Reddy Degree College, Mehdipatnam, Hyd	6		6
9	Anwar Ul-Uloom Degree College, Nampally, Hyd	5	3	8
10	O.U.C.W,Koti, Hyd	4		4
11	S.N Vanita Maha Vidyalaya, Nampally, Hyd	5	2	7
12	Aurora's Degree & PG College, Chikkadpally, Hyd	11	1	12
13	KMIT, Narayanguda, Hyd	5	1	6
14	Sardar Patel Degree College, Padmarao nagar, Hyd	5		5
15	Bhavan's New Science College, Ramkote,Hyd	4		4
16	RBVRRW College, YMCA, Hyd	8	2	10
17	Nizam College, Abids, Hyd	2		4
18	A.V College of Arts, Science & Commerce, Gaganmahal, Hyd	10		10
19	Kasturba Gandhi Women's Degree College, Sec-bad	7	1	8
20	G.D.C, Khairatabad, Hyd	5		5
21	St.Mary's Degree & PG College, Yousufguda,Hyd	5		5

22	Pragathi Maha Vidyalaya, Koti, Hyd	5		5
23	Vanitha Mahavidyalaya, Nampally, Hyd	5		1
24	Little Flower Degree College, Ramanthapur, Hyd	5		5
25	City College, Nayapool, Hyd	2	1	3
26	Shadan Degree College, Khairatabad, Hyd	1		1
27	Railway Degree College, Tarnaka, Hyd	5		5
28	St. Joseph's Degree & PG College, Tolichowki, Hyd	1		1
Total number of participants		189		

Special Days at St. Joseph's

- Friendship-day was celebrated on 6th August 2016. Faculty of the entire college arranged a Pot-Luck



- Independence Day was celebrated on 15th Aug 2016.



- Teacher's Day was celebrated on 5th Sep 2016
- Traditional Day was celebrated on 1st Oct 2016

Alumni Association Meet

“Milan-2016 -Alumni Association Meet ” was held on 17th September 2016 at Seminar Hall for the Degree & PG Courses. The program was started with prayer by Rev. Fr. Vincent Arokiadas, Principal, followed by prayer song sung by college choir.

Rev. Fr. Vincent Arokiadas, Principal, appreciated the alumni members for their immense support in framing syllabus, technical inputs for students and staff, providing placement opportunities to our students, active participation and valuable suggestions during BoS meetings, suggestions on improving quality education and help rendered for preparing industry-ready curriculum design. He thanked them for their continued support and service towards the growth of this institution.



Result Analysis of 2015-2016 March/April Even Semesters – II, IV, VI

Subject	Year	Group	No. of Students Appeared	No. of Students Passed	Pass Percentage
Electronics-2	I	MECS	34	25	74
Electronics-4	II	MECS	34	29	85
Electronics-7	III	MECS	31	30	97
Electronics-8	III	MECS	31	31	100
Applied Electronics-4	II	NHAEM	10	9	90
Applied Electronics-7	III	NHAEM	19	19	100
Applied Electronics-8	III	NHAEM	19	19	100
Physics-2	III	MPCS	32	23	72
Physics-4	III	MPCS	24	22	92
Physics-7	III	MPCS	22	22	100
Physics-8	III	MPCS	22	22	100

Placement Details 2016-17 (Even Semester)

Placement Report 2016-17

S.No	Name of the Student	Name of the Course	Name of the Company	Date of visit
1	Kadivar Krunal Kumar	B. Sc(MSCs)	Amazon (Full Time)	15-07-2016
2	Siddarth Yedugani	B. Sc(MSCs)	Amazon (Full Time)	15-07-2016
3	Steven louis fernandez	B. Sc(MECs)	Amazon (Part Time)	21-07-2016
4	Yedugani Sai Siddarth	B. Sc(MECs)	Amazon (Part Time)	21-07-2016
5	T. Vikas	B. Sc(MECs)	Infosys	16-11-2016
6	Srikanth	B. Sc(MECs)	Infosys	16-11-2016
7	Keerthi	B. Sc(MPCs)	Infosys	16-11-2016
8	G. Himakar	B. Sc(MSCs)	Infosys	16-11-2016

Josephiesta 2016-2017

The Department conducted two formal events and one informal events during the cultural festival Josephiesta 2016-2017 which was celebrated on 17th December 2017.

Formal & INFORMAL Events:

The Department of Physics & Electronics conducted two formal events namely Circuit & Execute, PPT presentation one informal event Pencil Art.

Circuit & Execute: The Department conducted a competition “Circuit & Execute” which is a individual event using Multisim simulation software. Student was given a electronic circuit and student constructed and executed it. The winner was taking less time comparing with other participants. Students from different colleges participated in the event.

PPT Presentation: The Department conducted PPT presentation on “Economy Vs Technology” event part of Josephiesta 2016. Students from various colleges actively participated in the event. Winner are awarded with I prize and II prize.

Pencil Art: As Josephiesta is stage for the students to show their talents in various fields. To encourage the talent in the field of art/painting the Department is conducted “Pencil Art” in which participants gave shape to their ideas on the canvas/chart only using pencil. Two students as one team participated in the event. Students from various colleges participated in the event. The best talents were awarded with the prizes.

Parent Teacher Meet

Month: January

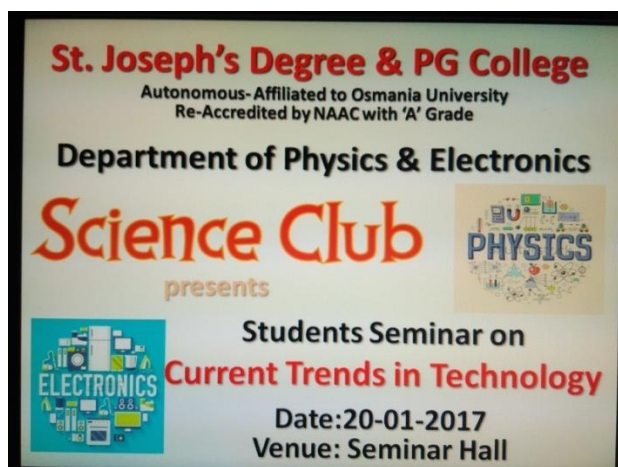
The Department Of Science has organized a Parent-teacher meeting on Friday 27th Jan'2017 in the college, from 1 Pm to 4 pm. The main purpose of meet was to create a common platform, where teacher and parents come together to enrich the student's educational experiences and discuss variety of issues, regarding all round development of students. The Respective Class In- charges and subject faculty met parents and shared with the parents about the students performance and the attendance. The Department elicited Feedback and suggestions from the parents. There were about 150 parents from overall B.Sc who turned up for the meet. The meeting was a grand success with parents turning up even after the date of meeting.

Science Club Event: Students Seminar on Current Trends in Technology

Date: 20.01.2017

Target Group: All B.Sc Physics & Electronics students.

Department of Physics & Electronics conducted the event “Students Seminar on Current Trends in Technology” on 20-01-2017 as a part of Science Club activity. Students from all three years presented seminars on various current technologies such as 3D printing, Solar energy, hybrid cars, cell phone technology etc. Best three presentations identified and to be awarded on coming Science Day i.e., on 28-02-2017. This event is co-ordinated by B.Sc (MECs & MPCs) III year Students.





Name of the Event: Field Visit

Place: TV5 Studio, Jubilee hills, Hyderabad.

Date: Feb 15, 2017

Visited by: B.Sc(MECs) – II Year Students

No .of students: 32 Students.

Students focus on:

- To enhance concepts and motivate students to learn more in electronic communication
- Interaction with industry people and Experts in the domain.
- Acquainting with technical aspects.

The Department is giving equal importance to industrial interaction visits. These activities provide opportunity to interact and get guidance from experts in the field. Students of B.Sc(MECs) II Year students visited the TV5 Studio to experience the satellite communication system as communication electronics is part of their curriculum.



Josephite's Social Responsibility 2016-17-Report

Department of Physics & Electronics organized a one day visit to **AIM FOR SEVA Orphanage** at Old Alwal and **Bala Sadan Girls Orphanage** at Old Alwal, Secunderabad by B. Sc (MPCs, MECs & NHAEM) III Year students under JSR activity on 18 Feb 2017. The faculty members, Mr. M.L.N.Rao, Mr. R. Ashok Kumar & Mr.S.Srikanth coordinated the program.

The following are the details of the Visit.

Total amount collected : Rs. 13,000.00

Amount spent on

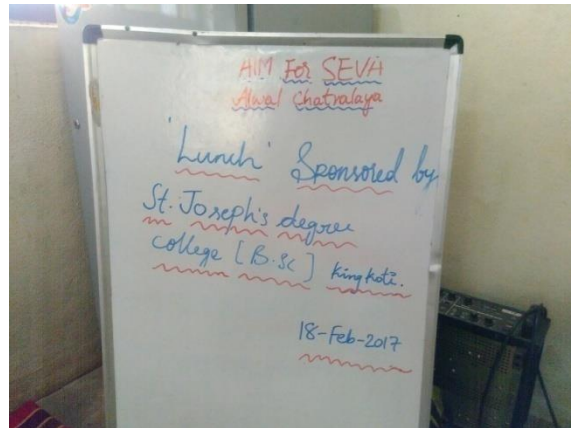
Food : Rs. 9500.00

Cricket Bat, cricket pads, gloves,
Slippers, Cool drinks, fruits, sweets
disposable glasses and paper plates : Rs. 4500.00

& also Donated old clothes and other items

Students entertained the children with games, songs and dances and also played cricket, volley ball, foot ball and other games.

Following are the glimpses of the event.





Science Day Celebrations

Date: 28-02-2017

February 28 was designated as National Science Day (NSD) by the Government of India in 1987, since then this day is celebrated throughout the country with great enthusiasm.

Objectives:

- Promote active involvement of Students and Lecturers in Science related activity.
- Enable students to know about the latest developments in the fields of Science and technology.
- Encourage scientific thinking and promote better understanding of concepts of Science among students.

The Department conducted following events on the occasion of the National Science Day.

- i. Guest Lecture
- ii. Model making
- iii. Poster Presentations.
- iv. Elocution
- v. Debate
- vi. Lab Open Day.

Guest Lecture:

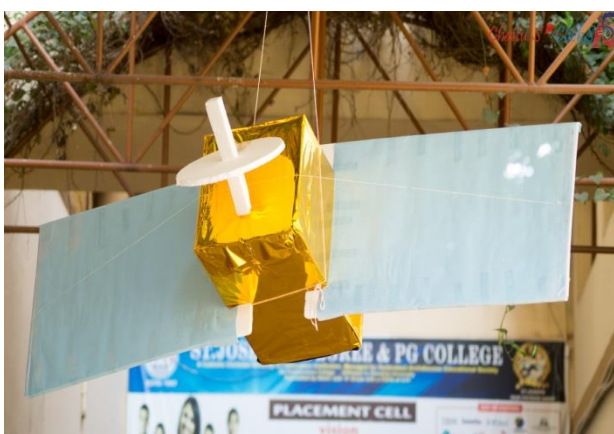
In the rapidly advancing world of technology today, technological innovations have proved to lead the way to greater development. Satellite technology has evolved over the years, bringing in more efficient and effective solutions which are applicable to all areas of life. This seminar an attempt to present the emerging trends in satellite technology and its applications. It discusses the different applications of satellite technology since its emergence to the present day. It also presents the emerging trends in satellite technology and its current and future applications.

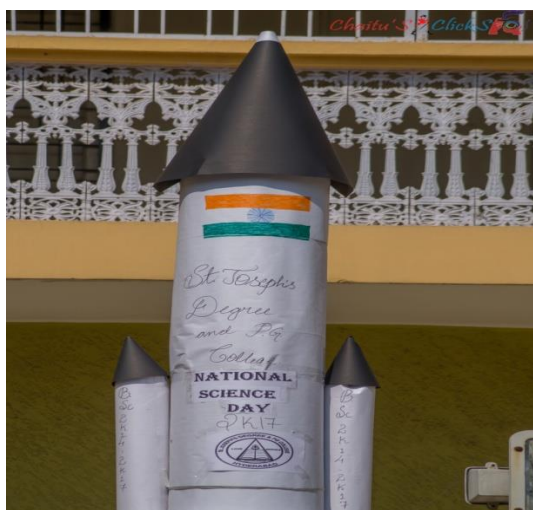
The Department invited eminent Scientist Dr. Sessa Sai, Deputy Director , NRSC, Hyderabad to deliver a seminar on “ Satellite Applications in The Current ICT era”.





Model Making: Scientists use models to better understand the real world. Models represent physical objects, but they also help conceptualize phenomena, systems, processes, and abstractions. They take the place of other objects to help us understand them better than we would if they stood by themselves. The Department conducted “Science Model Making” competition on the occasion of National Science Day. The Students actively participated in the event and developed some models like rocket, satellites, windmill etc.





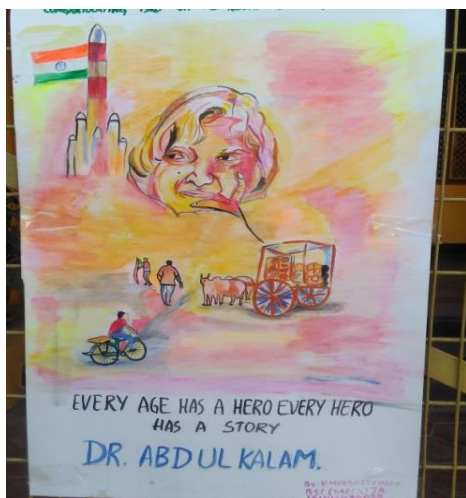
Prize Winners: D. Naga Teja , B.Sc(MECs) III Year - I Prize (Rocket)

David Mathew, B. Sc (MECs) III Year, II Prize (Windmill)

Poster Presentation: The Department organized Poster Presentation Competition on the occasion of National Science Day for the students of the College. Senior faculty Mr. M. Sruvan Kumar and Mr. R. Ashok Kumar were in-charges for this competition. Dilip Singh, Vinay Kumar and Sruvan Goud were the student co-coordinators for the competition. More than 100 posters were received from students and the same were displayed in the College entrance, parking place, canteen area, corridors and Joseph's Hall.

The Winners are:

- | | | |
|----------------------|--------------------|-----------|
| 1. V. Mokshit Chary | B.Sc (MECs) I Year | I Prize. |
| 2. Y. Arvind Raj | B.Sc(MECs) II Year | II Prize |
| 3. i. Jaswinder Kaur | B.Sc(MPCs) II Year | III Prize |
| ii. Shreya | B.Sc(MPCs) I Year | III Prize |



Debate: The Department organized a debate on “Science is a boon or bane” on the occasion of National Science Day. The students actively participated in the debate. Final year students organized this event.

The winners are:

1. C. Krishna B.Sc (MECs)-II Year I Prize
2. Sandeep B.Sc(MPCs)-III Year II Prize
3. A. Prabhu Kumar B.Sc (MSCs)- III Year III Prize



Elocution: On the occasion of National Science Day the Department organized a elocution on “Role of Science Development” on the occasion of National Science Day. The students actively participated in the elocution.

The winners are:

1. Jaswinder Kaur B.Sc(MPCs) I Year I Prize
2. A. Prabhu Kumar B.Sc(MSCs) III Year II Prize
3. Sheik Jameeruddin B.Sc(MECs) II Year III Prize

Open Lab Day: The Department observed Open Lab Day on National Science Day. On this day III year & II Year Electronics students displayed & demonstrated their major & mini projects to the 8th, 9th & 10th class students of St. Joseph's Girls High School who visited the Department. Physics students demonstrated light based experiments to the students.





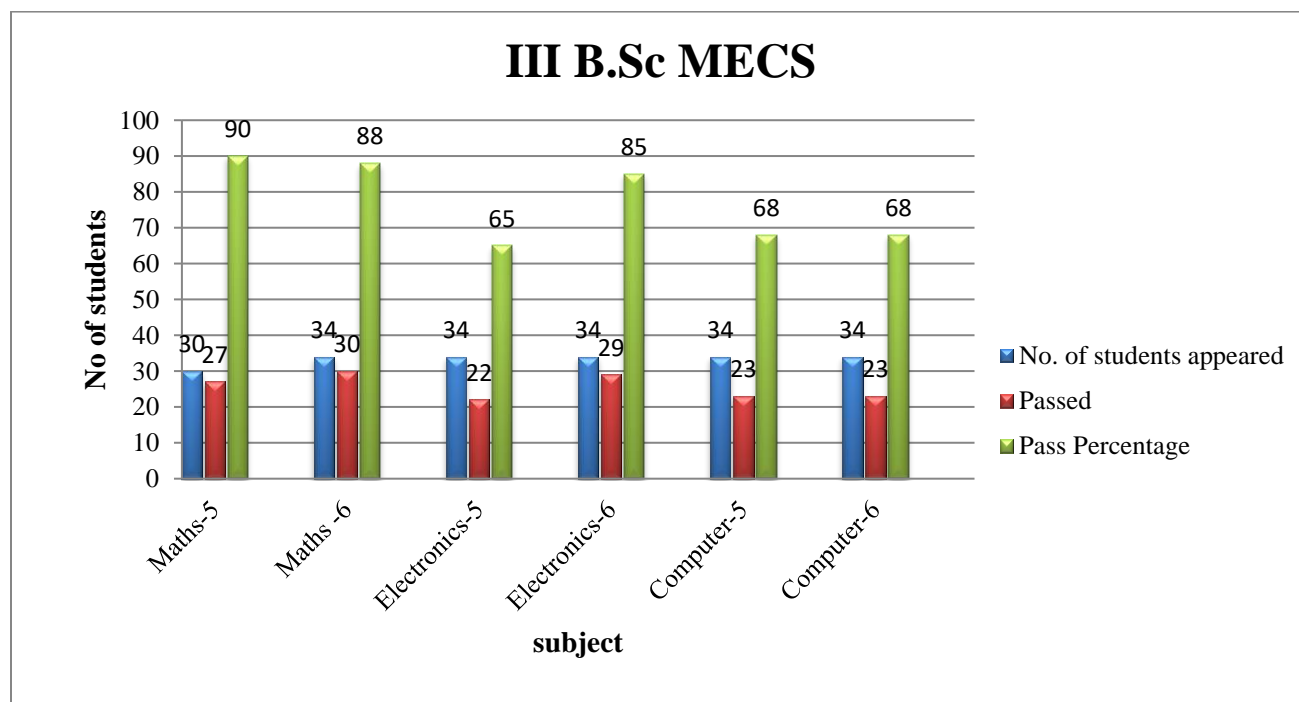
Board of Studies Meetings

- Board of Studies Meeting of the Electronics was conducted on 23rd Feb 2017 at 10.30 AM in the Conference Hall, Department of Physics, Osmania University to ratify the Syllabus for the Academic Year 2017-2018
- Board of Studies Meeting of the Physics was conducted on 23rd Feb 2017 at 2.30 PM in the Conference Hall, Department of Physics, Osmania University to ratify the Syllabus for the Academic Year 2017-2018

Result Analysis June – Nov 2016-17 (Odd Semester)

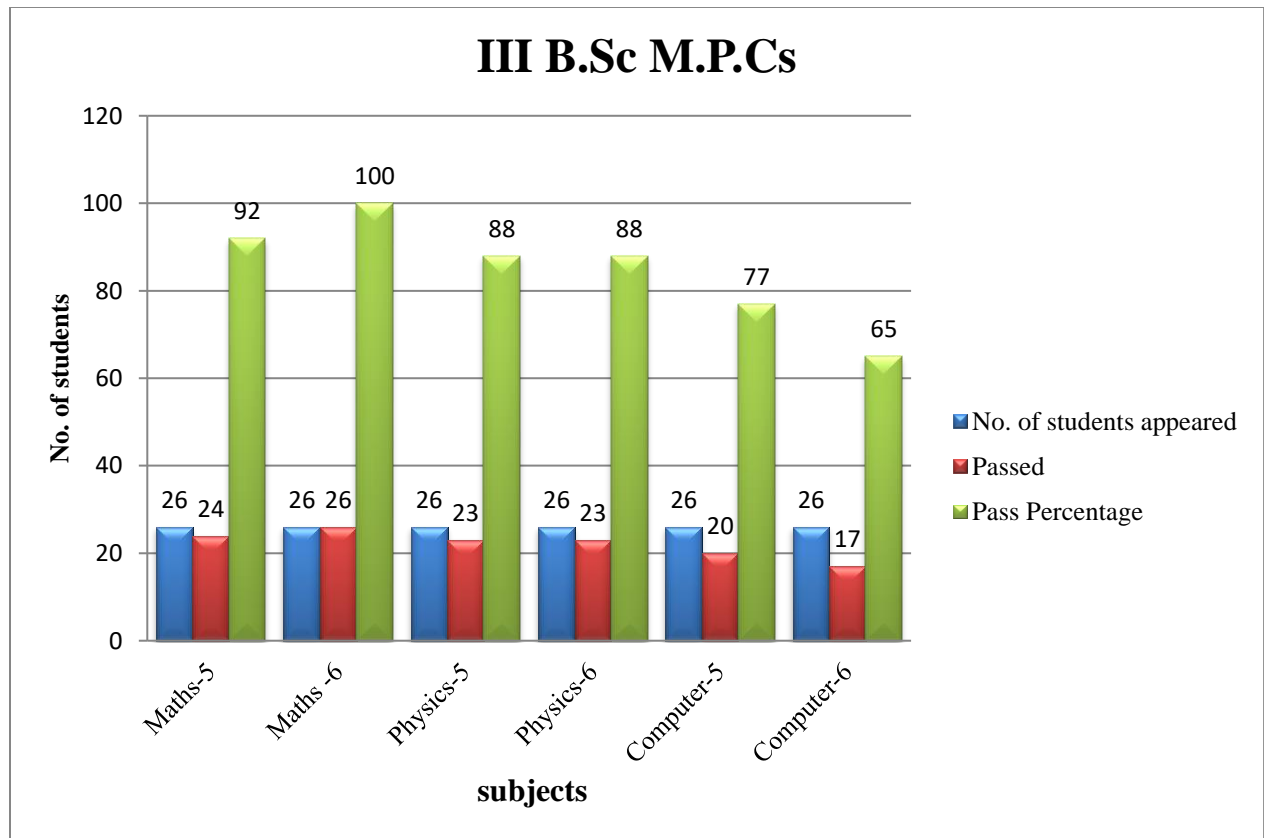
Semester-V, III B. Sc MECS

	No. of students appeared	Passed	Pass Percentage	Fail	Fail Percentage
Maths-5	30	27	90	7	10
Maths -6	34	30	88	4	12
Electronics-5	34	22	65	12	35
Electronics-6	34	29	85	5	15
Computer-5	34	23	68	11	32
Computer-6	34	23	68	11	32



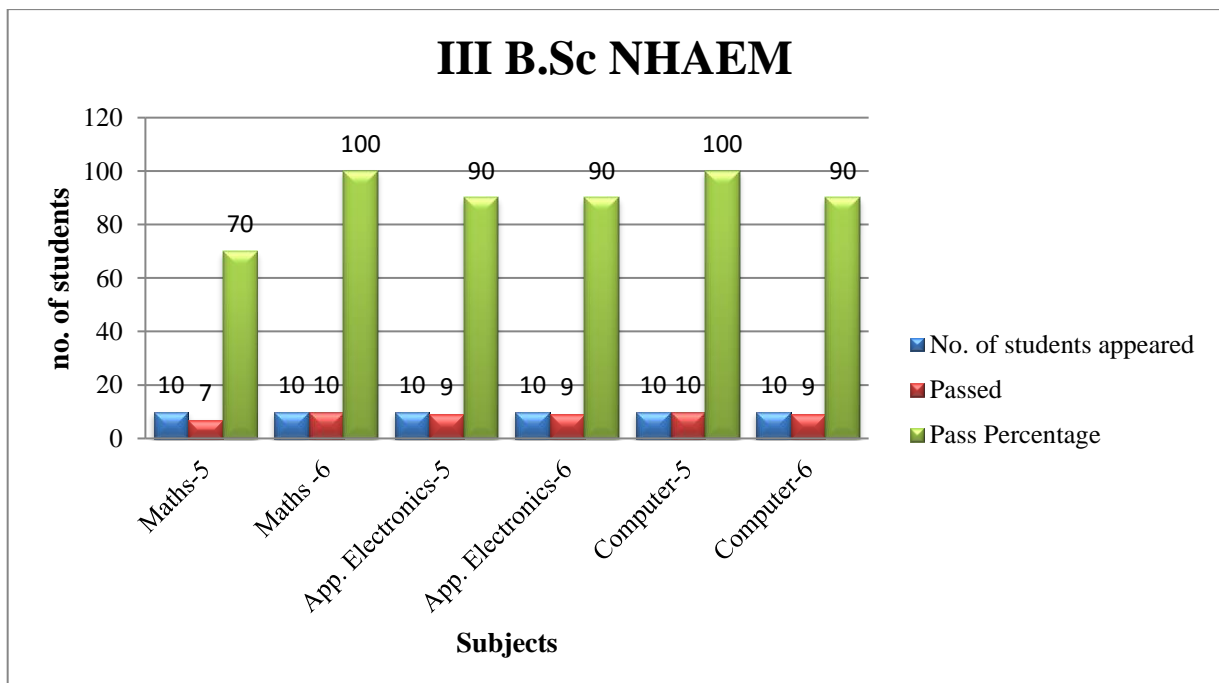
Semester-V, III B. Sc MPCS

	No. of students appeared	Passed	Pass Percentage	Fail	Fail Percentage
Maths-5	26	24	92	2	8
Maths -6	26	26	100	0	0
Physics-5	26	23	88	3	12
Physics-6	26	23	88	3	12
Computer-5	26	20	77	6	23
Computer-6	26	17	65	9	35



Semester-V, III B. Sc NHAEM

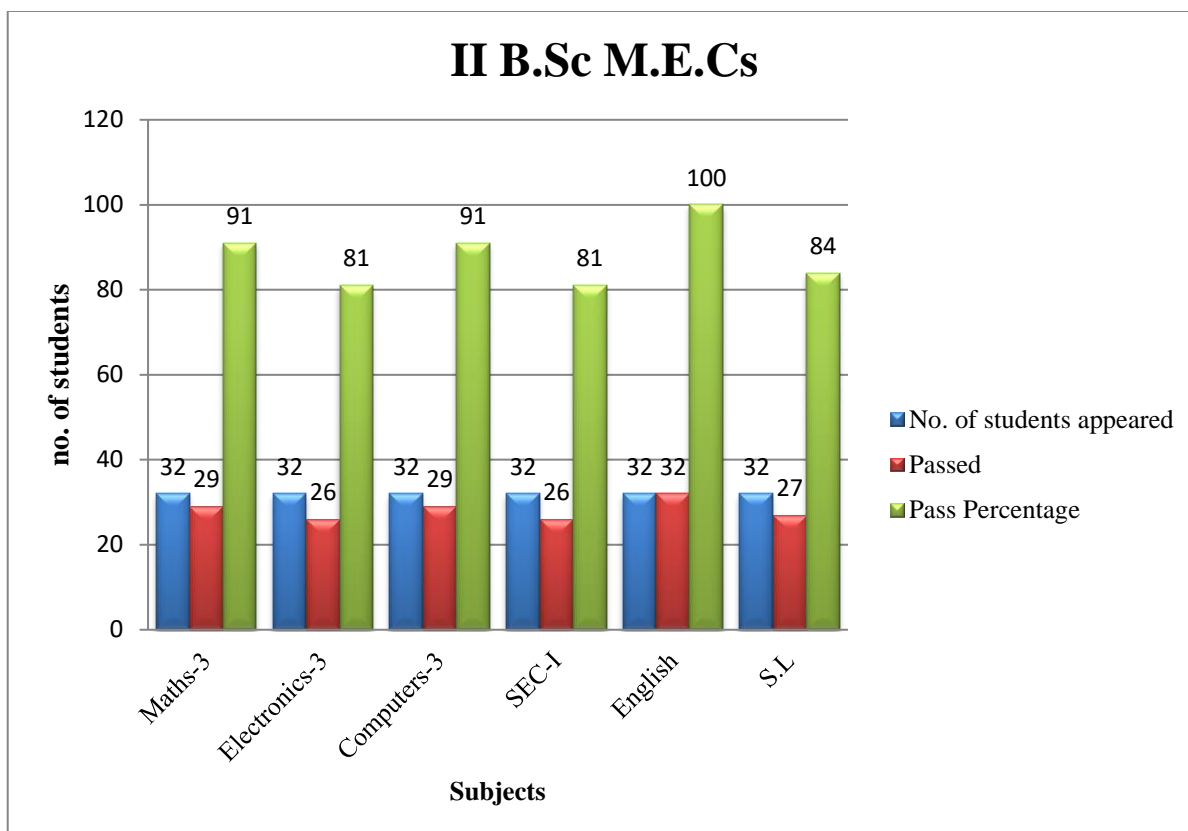
	No. of students appeared	Passed	Pass Percentage	Fail	Fail Percentage
Maths-5	10	7	70	3	30
Maths -6	10	10	100	0	0
App. Electronics-5	10	9	90	1	10
App. Electronics-6	10	9	90	1	10
Computer-5	10	10	100	0	0
Computer-6	10	9	90	1	10



Semester-III, II B. Sc M.E.Cs

	No. of students appeared	Passed	Pass Percentage	Fail	Fail Percentage
Maths-3	32	29	91	3	9
Electronics-3	32	26	81	6	19
Computers-3	32	29	91	3	9
SEC-I	32	26	81	6	19
English	32	32	100	0	0
S.L	32	27	84	5	16

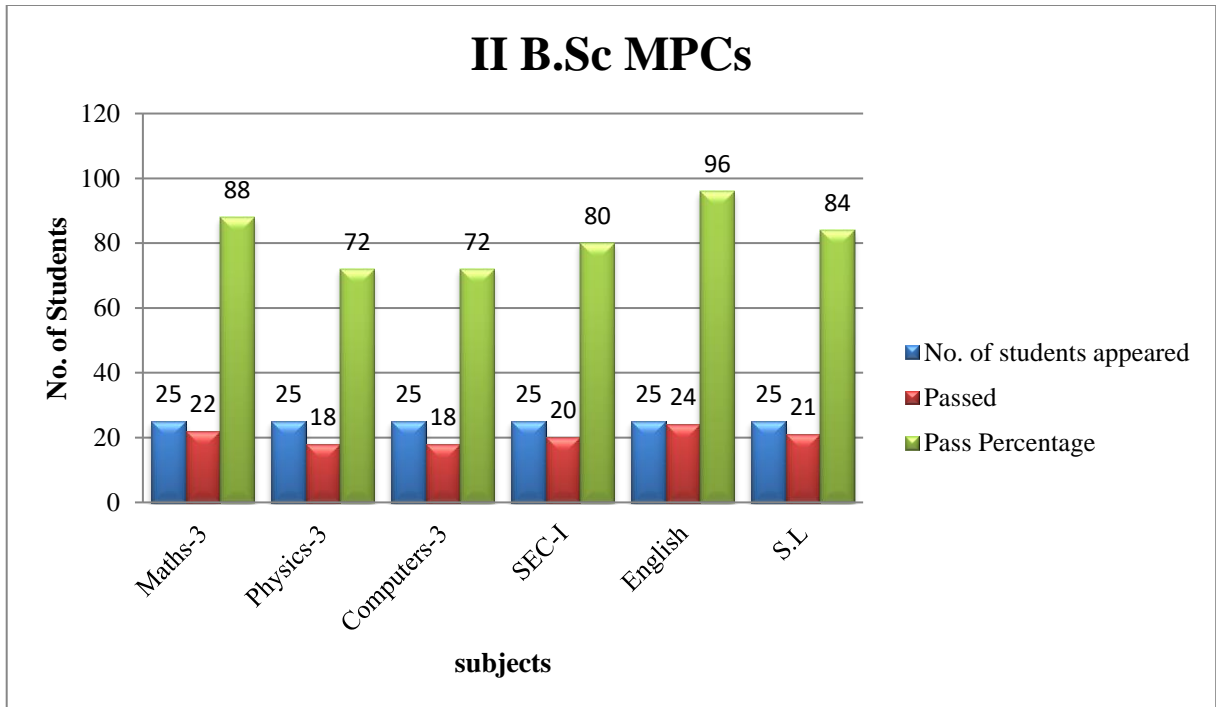
II B.Sc M.E.Cs



Semester-III, II B. Sc M.P.Cs

	No. of students appeared	Passed	Pass Percentage	Fail	Fail Percentage
Maths-3	25	22	88	3	12
Physics-3	25	18	72	7	28
Computers-3	25	18	72	7	28
SEC-I	25	20	80	5	20
English	25	24	96	1	4
S.L	25	21	84	4	12

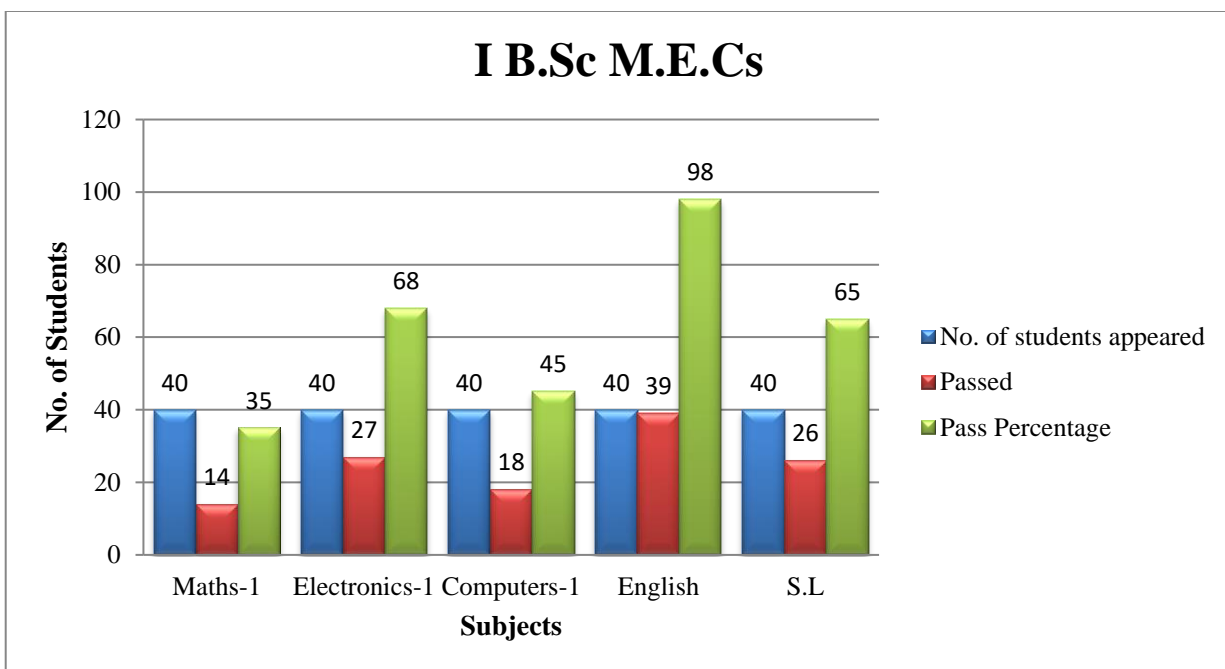
II B.Sc MPCs



Semester-I, I B. Sc M.E.Cs

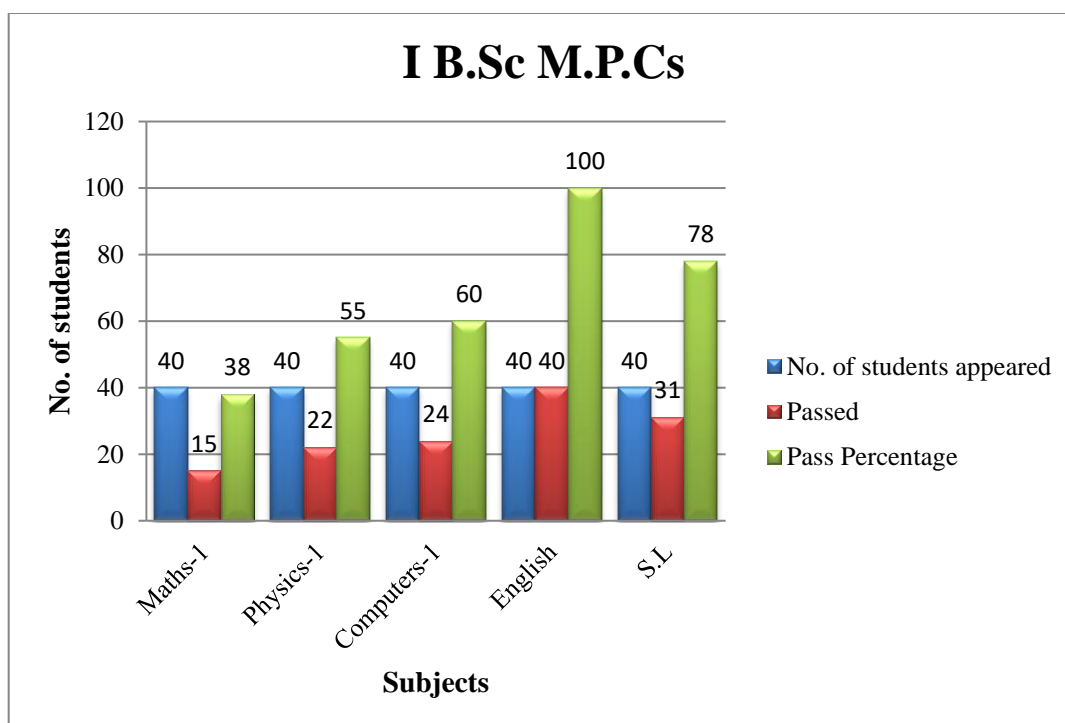
	No. of students appeared	Passed	Pass Percentage	Fail	Fail Percentage
Maths-1	40	14	35	26	65
Electronics-1	40	27	68	13	32
Computers-1	40	18	45	22	55
English	40	39	98	1	2
S.L	40	26	65	14	35

I B.Sc M.E.Cs



Semester-I, I B. Sc M.P.Cs

	No. of students appeared	Passed	Pass Percentage	Fail	Fail Percentage
Maths-1	40	15	38	25	62
Physics-1	40	22	55	18	45
Computers-1	40	24	60	16	40
English	40	40	100	0	0
S.L	40	31	78	9	22



Placement Details – 2016-17 (Even Sem)

SNO	DATE	NAME OF THE COMPANY	NAME OF THE STUDENT	GROUP
1	30-11-2016	Concentrix	Pooja Kumari	B.Sc (MPCs)
2	30-11-2016	Concentrix	Ashotsh chandra gowli	B.Sc(NHAEM)
3	06-12-2016	Sutherland Global	Madaram Sravan Goud	B.Sc (MECs)
4	07-12-2016	ICICI Prudential life	Khethawath Srikanth	B.Sc (MECs)
5	07-12-2016	ICICI Prudential life	Akhil A	B.Sc (MECs)
6	07-12-2016	ICICI Prudential life	Nishanth Singh	B.Sc (MECs)

7	07-12-2016	ICICI Prudential life	Karal Dilip Singh	B.Sc (MECs)
8	07-12-2016	ICICI Prudential life	Pooja Kumari	B.Sc (MPCs)
9	07-12-2016	ICICI Prudential life	Mohammed Sayeed	B.Sc (MPCs)
10	03-01-2017	Genpact	Pooja kumari	B.Sc (MPCs)
11	06-03-2017	CSS Corp	Shaik Hafeez	B.Sc (MECs)
12	06-03-2017	CSS Corp	Syed Ameerudin	B.Sc (MECs)
13	06-03-2017	CSS Corp	Syed Muddassir	B.Sc (MECs)
14	06-03-2017	CSS Corp	Oscar Ambrose	B.Sc (NHAEM)
15	06-03-2017	CSS Corp	Ashutosh Chandra Gowli	B.Sc (NHAEM)
16	06-03-2017	CSS Corp	Thathi Reddy Ramya	B.Sc (MPCs)