

NEW HORIZON COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

06.04.2018

EXPERT LECTURE

The ECE students are hereby informed that an expert lecture is scheduled on

“Digital Signal Processing”

On 09.04.2018.

**By Mr.Shivananda Koteswar, MediaTek,
Bangalore.**

Timing schedule is as follows

| Sl No | Timings | Semester |
|-------|------------------|----------|
| 1 | 2.50PM – 3.50 PM | 4 |

Respective subject teachers are hereby informed to be present in the Chanakya Hall during the schedule.

Note: All Faculty members are invited to attend the same (without affecting regular classes)

Venue: Chanakya Seminar Hall

Faculty In-Charge: Mr.Madhukar & Ms.Thanuja I.K



HOD ECE



Shivananda (Shivoo) Koteswar has over 23 years of experience in the semiconductor industry in varying positions. He is currently with MediaTek as General Manager and Site Head and responsible for Engineering teams focusing on Smartphones, IoT, Networking and Home Entertainment products

Shivoo is also an accomplished entrepreneur and angel investor in social networking, hospitality, agritech and social networking. Shivoo's key angel investment projects are – Your Philanthropy Story, Coastered Technologies, Belakoo CoCreate and Sparsha Learning technologies. Shivoo is a trustee, Belakoo Education Trust, focusing on rural education and skill development program.

Shivoo has taught many courses in VLSI and Management as a visiting faculty in leading colleges/universities in India. Shivoo also serves as a Board of Studies Member in Mount Carmel College, BMS College, Indian Academy Degree College and Dr. MCET, Pollachi and served as an Advisory Board Member in Vyasa International School, PES Group of Institutes and MS Ramaiah School of Advanced Studies

A Phd Research Scholar and an alumnus of IIM, Bangalore, Shivoo has derived inspiration from real life stories all around him and has published a books titled "50 Shades of Life" and a fiction titled "50 Colours of Love"

DSP



Thanuja I K <hemthama@gmail.com>

Syllabus for DSP

Thanuja I K <hemthama@gmail.com>

Mon, Apr 2, 2018 at 12:13 PM

To: shivoo <shivoo.koteshwar@gmail.com>

Respected Sir,

Thank you very much.

Can we have your expert lecture on the 9th April from 3 to 4 pm?

Thanks and Regards,
Thanuja.

[Quoted text hidden]

Thanuja I.K
Assistant Professor,
Dept of ECE,
New Horizon College of Engineering,
Bengaluru.

↑↑



Thanuja I K <hemthama@gmail.com>

Syllabus for DSP

shivoo <shivoo.koteshwar@gmail.com>
To: Thanuja I K <hemthama@gmail.com>

Mon, Apr 2, 2018 at 12:13 PM

yes possible
[Quoted text hidden]

15

Expert lecture

9/04/18

DSP
ECE44

NEW HORIZON COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
IV Sem "A" Sec

| SL.No | USN | NAME | Stream | BATCH |
|-------|------------|-----------------------------|--------|-------|
| 1 | 1NH15EC015 | DEBBRAT MAHAPATRA | PROF | A1 |
| 2 | 1NH16EC001 | A M AMARJITH | EXE | A1 |
| 3 | 1NH16EC002 | ABHISHEK KUMAR DESHETTI | EXE | A1 |
| 4 | 1NH16EC003 | ADITYA C | EXE | A1 |
| 5 | 1NH16EC004 | AFZAL HUSSAIN | EXE | A1 |
| 6 | 1NH16EC005 | AKHIL JOSEF | EXE | A1 |
| 7 | 1NH16EC006 | AKHILESH VARMA KALIDINDI | EXE | A1 |
| 8 | 1NH16EC007 | AKSHAY RAO | PROF | A1 |
| 9 | 1NH16EC008 | ANMOL KUMAR | EXE | A1 |
| 10 | 1NH16EC009 | ANOOP.A | PROF | A1 |
| 11 | 1NH16EC010 | ANUSHA H N | EXE | A1 |
| 12 | 1NH16EC011 | ARUN.P | GLOBAL | A1 |
| 13 | 1NH16EC012 | ATHIRA AJAYA KUMAR KULLULLY | EXE | A1 |
| 14 | 1NH16EC013 | YUGANDHAR REDDY | PROF | A1 |
| 15 | 1NH16EC014 | B SRIKANTH REDDY | EXE | A1 |
| 16 | 1NH16EC015 | BHASKAR CHOUDHURY | EXE | A1 |
| 17 | 1NH16EC016 | BIPIN DIXIT.H | EXE | A1 |
| 18 | 1NH16EC017 | KIRAN C A | EXE | A1 |
| 19 | 1NH16EC018 | ARUNA C | EXE | A1 |
| 20 | 1NH16EC019 | C.LEHARIKA | PROF | A1 |
| 21 | 1NH16EC020 | CHETHAN S | EXE | A1 |
| 22 | 1NH16EC022 | DARSHAN RAJ | EXE | A1 |
| 23 | 1NH16EC023 | DEEPAK KU. PRADHAN | EXE | A2 |
| 24 | 1NH16EC024 | DEEPTHI R | EXE | A2 |
| 25 | 1NH16EC025 | DENNIS VINCENT PAULRAJ | PROF | A2 |
| 26 | 1NH16EC026 | DUDEKUNAKHASIM | EXE | A2 |
| 27 | 1NH16EC027 | ELDHO JOSE | EXE | A2 |
| 28 | 1NH16EC028 | ELLINKI JAHNAVI | PROF | A2 |
| 29 | 1NH16EC029 | VICTOR ABHILASH | EXE | A2 |
| 30 | 1NH16EC030 | G AVINASH | EXE | A2 |
| 31 | 1NH16EC031 | GIRISH JATTU GOUDA | EXE | A2 |
| 32 | 1NH16EC032 | HARI PRASAD.R | EXE | A2 |
| 33 | 1NH16EC033 | HARSH SRIVASTAVA | EXE | A2 |
| 34 | 1NH16EC034 | JAGADEESH.D | EXE | A2 |
| 35 | 1NH16EC035 | JANANI.B.R | EXE | A2 |
| 36 | 1NH16EC036 | GIRIVARDHAN K | GLOBAL | A2 |
| 37 | 1NH16EC037 | KALAMADI SREELEKHA | GLOBAL | A2 |
| 38 | 1NH16EC039 | KIRAN N | EXE | A2 |
| 39 | 1NH16EC040 | KISHORE N | EXE | A2 |
| 40 | 1NH16EC041 | K. VENKATA MOUNISH REDDY | EXE | A2 |
| 41 | 1NH16EC042 | KORVI CHANDRA KIRAN REDDY | EXE | A2 |

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| 42 | 1NH16EC043 | KUSHI PONNAMMA.K.P | EXE | A2 |
| 43 | 1NH16EC044 | LALITHAMBHA S M | EXE | A2 |
| 44 | 1NH16EC046 | SACHIT M | GLOBAL | A3 |
| 45 | 1NH16EC047 | MADAN GOWDA.M | PROF | A2 |
| 46 | 1NH16EC048 | MADHU M DEVAMANE | PROF | A2 |
| 47 | 1NH16EC049 | MANJULA.S | PROF | A3 |
| 48 | 1NH16EC050 | MANJUNATH N | PROF | A3 |
| 49 | 1NH16EC051 | MANJUNATHA S | EXE | A3 |
| 50 | 1NH16EC052 | MAURYA REDDY | EXE | A3 |
| 51 | 1NH16EC053 | MEGHASHREE H M | EXE | A3 |
| 52 | 1NH16EC054 | MEGHANA V | EXE | A3 |
| 53 | 1NH16EC055 | MEGHASHREE R | EXE | A3 |
| 54 | 1NH16EC056 | MISBAH TABASSUM AEJAZ | EXE | A3 |
| 55 | 1NH16EC057 | MITHUN.V | EXE | A2 |
| 56 | 1NH16EC058 | MOHAMMED ANAS | EXE | A3 |
| 57 | 1NH16EC059 | MOHAMMED FAROOQH PASHA | EXE | A3 |
| 58 | 1NH16EC060 | MOHIT R | PROF | A3 |
| 59 | 1NH16EC061 | MOHIT SAHU | EXE | A3 |
| 60 | 1NH16EC062 | MUJEER PASHA | PROF | A3 |
| 61 | 1NH16EC063 | MAHESHWARI N | EXE | A3 |
| 62 | 1NH16EC134 | T. HEMANTH KRISHNA | EXE | A1 |
| 63 | 1NH16EC135 | AKULA ANIL BHARATH | EXE | A3 |
| 64 | 1NH16EC136 | ALVIRA SUZANA | GLOBAL | A3 |
| 65 | 1NH16EC137 | ANUPOJU SAI VENKAT THRIMURTHY | GLOBAL | A3 |
| 66 | 1NH16EC138 | ASHISH KUMAR . S | EXE | A3 |
| 67 | 1NH16EC139 | KARTHIK . K . S | EXE | A3 |
| 68 | 1NH17EC428 | SUMAN . K . T | EXE | A1 |
| 69 | 1NH17EC400 | AKASH PRASAD C | EXE | A3 |
| 70 | 1NH17EC402 | ARATHI . V | EXE | A3 |
| 71 | 1NH17EC403 | BHAVANI . V | PROF | A3 |
| 72 | 1NH17EC412 | KIRAN . R | EXE | A1 |
| 73 | 1NH17EC419 | PRASANNA KUMAR . A . E | EXE | A3 |
| 74 | 1NH17EC423 | RAJESHA . T . A | EXE | A1 |
| | 1NH17EC429 | SUPRITHA H . D | EXE | A3 |

Lalithambha
Sachit
Madhu
Manjula
Manjunath
Manjunath S
Maurya Reddy
Meghashree H M
Meghana V
Meghashree R
Misbah Tabassum
Mithun V
Mohammed Anas
Mohammed Farooqh Pasha
Mohit R
Mohit Sahu
Mujeer Pasha
Maheshwari N
T. Hemanth Krishna
Akula Anil Bharath
Alvira Suzana
Anupouju Sai Venkat Thrimurthy
Ashish Kumar S
Karthik K S
Suman K T
Akash Prasad C
Arathi V
Bhavani V
Kiran R
Prasanna Kumar A E
Rajesh T A
Supriya

Arash

HOD - ECE

12.04.18

Expert lecture
 DSP 9/4/18
 ECE-44

NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

IV Sem "B" Sec

| SL.No | USN | NAME |
|-------|------------|--|
| 1 | 1NH16EC064 | NEHA MAHESH <i>Neha Mahesh</i> |
| 2 | 1NH16EC066 | NISHU DUBEY |
| 3 | 1NH16EC067 | NITESH K |
| 4 | 1NH16EC068 | NITHIN.E |
| 5 | 1NH16EC070 | MAHALAKSHMI P <i>Nithin</i> |
| 6 | 1NH16EC071 | DEEPAK P S <i>P. Mahesh</i> |
| 7 | 1NH16EC072 | PARITHOSH VEMA <i>Deepak</i> |
| 8 | 1NH16EC074 | PAVAN KUMAR S <i>v. Kumar</i> |
| 9 | 1NH16EC075 | POOJA SHANTARAM NAYAK |
| 10 | 1NH16EC076 | PRAJWAL.T.J |
| | 1NH16EC077 | PRANAY REDDY S <i>Pranay</i> |
| 12 | 1NH16EC078 | PRASHANTH GOWDA.R.S <i>Prashanth</i> |
| 13 | 1NH16EC079 | PRAVEEN KUMAR S <i>Praveen</i> |
| 14 | 1NH16EC080 | PRESHIKA J M <i>Preshika</i> |
| 15 | 1NH16EC081 | PRITHIPA A <i>Prithipa</i> |
| 16 | 1NH16EC082 | R.PAVAN RAJ <i>R. Pavan Raj</i> |
| 17 | 1NH16EC083 | RAJVARDHAN <i>Rajvardhan</i> |
| 18 | 1NH16EC084 | RAKSHITHA N <i>Rakshitha</i> |
| 19 | 1NH16EC085 | ROSHINI.M <i>Roshini</i> |
| 20 | 1NH16EC086 | RUSHAB.S.G <i>Rushab</i> |
| 21 | 1NH16EC087 | SAI KIRAN |
| 22 | 1NH16EC088 | SAI PRASHANTH <i>Sai Prashanth</i> |
| 23 | 1NH16EC089 | S P SAAJU <i>S P SAAJU</i> |
| 24 | 1NH16EC090 | SAGAR <i>Sagar</i> |
| 25 | 1NH16EC091 | SAM LEANDER D |
| 26 | 1NH16EC092 | SANNAPANENI PAVANI |
| 27 | 1NH16EC093 | SHAIK NOORULLA BASHA <i>Shaik Noorulla</i> |
| 28 | 1NH16EC094 | SHAIKH ASIF <i>Shaikh Asif</i> |
| 29 | 1NH16EC095 | SHASHANK B <i>Shashank B</i> |
| 30 | 1NH16EC096 | SHRAVIN.R.SEKHAR |
| 31 | 1NH16EC097 | SHRIPAD AITHAL <i>Shripad</i> |
| 32 | 1NH16EC098 | SIDDESH JALAGERI |
| 33 | 1NH16EC099 | JAGAN MOHAN REDDY <i>Jagan</i> |
| 34 | 1NH16EC100 | SIDRAMAPPA <i>Sidramappa</i> |
| 35 | 1NH16EC101 | SINDHU C R |
| 36 | 1NH16EC102 | SIVA CHALLA |
| 37 | 1NH16EC103 | SPOORTHY.G |
| 38 | 1NH16EC105 | SUSHMA CHIKKUR |
| 39 | 1NH16EC106 | T.E.HABISHEK <i>T.E. Habishek</i> |
| 40 | 1NH16EC107 | T.SAI DEEPTHI |
| 41 | 1NH16EC108 | TANUJ.A |

| | | |
|----|------------|---|
| 42 | 1NH16EC109 | UDIT BAHUGUNA <i>et</i> |
| 43 | 1NH16EC110 | VARUN MISHRA <i>CSL</i> |
| 44 | 1NH16EC111 | VEDA MILIND KULKARINI |
| 45 | 1NH16EC112 | VEENA K |
| 46 | 1NH16EC113 | VIDYA VISHNU |
| 47 | 1NH16EC114 | VIJAY C |
| 48 | 1NH16EC115 | VIJAY KUMAR C |
| 49 | 1NH16EC116 | VIJAY S |
| 50 | 1NH16EC118 | VISHWANATH VEERANNA |
| 51 | 1NH16EC119 | W M MAGDOOM FUAAD |
| 52 | 1NH16EC120 | YATHIN S |
| 53 | 1NH16EC121 | YATHISH K |
| 54 | 1NH16EC122 | YESHWANTH J M <i>Yeshwanth JM</i> |
| 55 | 1NH16EC124 | YESHWANTH.M <i>Yeshwanth</i> |
| | 1NH16EC125 | YESHWANTH.M.L <i>Yest</i> |
| 57 | 1NH16EC128 | SIMON CHAUHAN <i>Simon</i> |
| 58 | 1NH16EC129 | ASHOK CHOUDHARY |
| 59 | 1NH16EC130 | M.V.K BHARATH |
| 60 | 1NH16EC131 | NAMRATHA PRAKSAH |
| 61 | 1NH16EC132 | PREM KUMAR |
| 62 | 1NH16EC133 | SRIDHAR. P |
| 63 | 1NH17EC401 | AKSHAY GAMBHIR SADALAGI |
| 64 | 1NH17EC406 | DEEPAK KUMAR . R |
| 65 | 1NH17EC407 | GURURAJ SHIVASHANKAR NATIKAR <i>Conductor</i> |
| 66 | 1NH17EC410 | JYOTHI CHANDRASHEKAR |
| 67 | 1NH17EC414 | LINGARAJ G. B |
| 68 | 1NH17EC417 | MONIKA T . M |
| 69 | 1NH17EC426 | SACHIN . M |
| | 1NH17EC427 | SHAMBULING V . PATIL |
| 71 | 1NH17EC430 | SUSHMITHA |

Expert lecture 19-4-16
DSP
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NEW HORIZON COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
IV Sem "C" Sec

| SL.No | USN | NAME |
|-------|------------|--|
| 1 | 1NH13EC730 | MAMATHA V K <i>MB</i> |
| 2 | 1NH14EC001 | ABHIJITH S RAJ |
| 3 | 1NH14EC047 | Harshavardhana A |
| 4 | 1NH14EC087 | N. SHANTH KUMAR <i>Shanthkumar</i> |
| 5 | 1NH14EC724 | O. BHARGAVA REDDY <i>Bhargava</i> |
| 6 | 1NH15EC007 | A. VIKRAM KUMAR REDDY |
| 7 | 1NH15EC075 | R RAGHAV SRIVATSAV |
| 8 | 1NH15EC109 | SNEHIL BASU |
| 9 | 1NH15EC434 | SUDHANYA S |
| 10 | 1NH15EC736 | RISHAV PAUL |
| 11 | 1NH16EC702 | ABHISHEK KHOT <i>Abhishek</i> |
| | 1NH16EC703 | ABHISHEK PATTAJOSHI <i>Abhishek</i> |
| | 1NH16EC704 | ABU BAKAR SIDDIQ <i>Abubakar</i> |
| 14 | 1NH16EC705 | AKSHAY.V <i>Akshay</i> |
| 15 | 1NH16EC706 | AMMIDAL VISHNU VIKAS <i>Ammidal</i> |
| 16 | 1NH16EC707 | ANITA CHAUHAN <i>Anita</i> |
| 17 | 1NH16EC708 | ANJU GOPINATH <i>Anju</i> |
| 18 | 1NH16EC709 | ASHUTOSH MANISH <i>Ashutosh</i> |
| 19 | 1NH16EC710 | B VAMSHI KRISHNA REDDY <i>Vamsi</i> |
| 20 | 1NH16EC711 | BALAJI L <i>Balaji</i> |
| 21 | 1NH16EC712 | CHETHAN.D.R <i>Chethan D.R</i> |
| 22 | 1NH16EC713 | CHIRAG S <i>Chirag</i> |
| 23 | 1NH16EC714 | GAGANA M R <i>Gagan</i> |
| 24 | 1NH16EC715 | GOWRI SNEHA PRIYA S <i>Gowri</i> |
| 25 | 1NH16EC716 | GURRAM VENKATA NIKESH <i>Gurram</i> |
| 26 | 1NH16EC717 | HARSHITA.P <i>Harshita</i> |
| 27 | 1NH16EC718 | JEEVAN.K <i>Jeevan</i> |
| | 1NH16EC719 | MITHUN KUMAR <i>Mithun</i> |
| 29 | 1NH16EC720 | KIRAN SAGAR N P <i>Kiran</i> |
| 30 | 1NH16EC722 | LINGRAJ JAMKHANDI <i>Lingraj</i> |
| 31 | 1NH16EC723 | M ANISHA <i>Anisha</i> |
| 32 | 1NH16EC724 | M PRIYADARSHINI <i>Priyadarshini</i> |
| 33 | 1NH16EC725 | MSVV RITVIK <i>Ritvik</i> |
| 34 | 1NH16EC726 | MANJUNATH T <i>Manjunath</i> |
| 35 | 1NH16EC727 | MANSOOR ELAHI <i>Mansoor</i> |
| 36 | 1NH16EC728 | MOHAMMED ZEESHAN ALI <i>Zeehan Ali</i> |
| 37 | 1NH16EC729 | SIVA NAGAMUNI REDDY <i>Siva</i> |
| 38 | 1NH16EC730 | MOUNIKA E <i>Mounika.e</i> |
| 39 | 1NH16EC731 | THILAK PRASAD <i>Thilak</i> |
| 40 | 1NH16EC733 | NAWAZ KHAN <i>Nawaz</i> |
| 41 | 1NH16EC734 | NISHA ANANDU NAIK <i>Nisha</i> |
| 42 | 1NH16EC735 | NIVEDITHA N <i>Niveditha</i> |

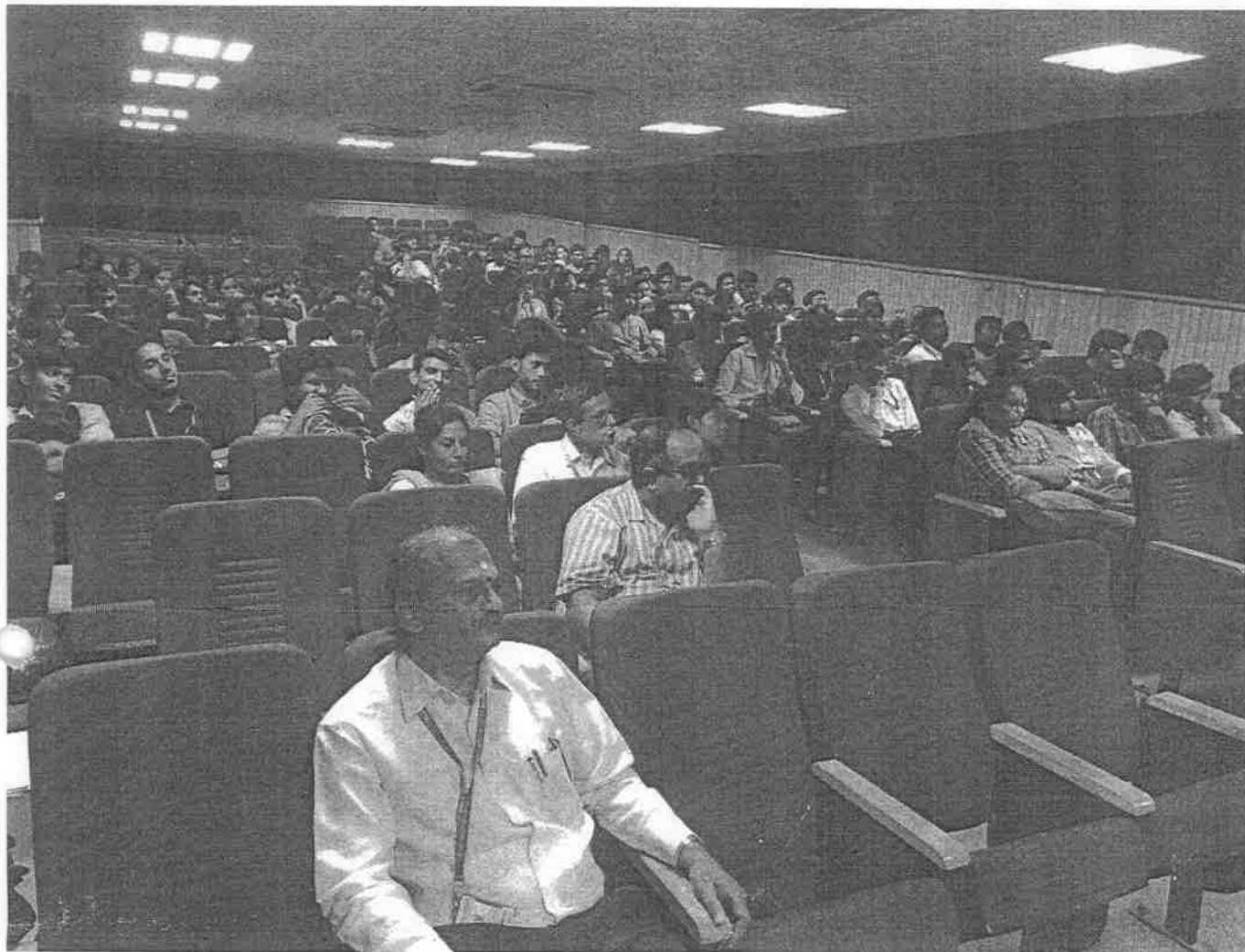
| | | | |
|----|------------|------------------------|------------------------|
| 43 | 1NH16EC736 | NIVEDITHA R | <i>N</i> |
| 44 | 1NH16EC738 | PAVITHRA.N | <i>P</i> |
| 45 | 1NH16EC739 | PAWAN KUMAR SRIVASTAVA | <i>Pawan</i> |
| 46 | 1NH16EC740 | POOJA P CHOUHAN | <i>Pooja</i> |
| 47 | 1NH16EC741 | PRAVEEN KUMAR | <i>Praveen Kumar R</i> |
| 48 | 1NH16EC742 | RACHANA.S | <i>Rachana S</i> |
| 49 | 1NH16EC743 | K RAGHAVENDRA | <i>Rage</i> |
| 50 | 1NH16EC744 | RAMYA.R | <i>Ramy</i> |
| 51 | 1NH16EC745 | REDDY SHEKAR.B.S | <i>Shekar</i> |
| 52 | 1NH16EC746 | RUCHIKA PRADEEP | <i>R</i> |
| 53 | 1NH16EC747 | S.SARAVANA | <i>Sarav</i> |
| 54 | 1NH16EC748 | S SHYAM | <i>S Shyam</i> |
| 55 | 1NH16EC749 | SHRIYA.G | |
| 56 | 1NH16EC750 | SINDHU A | <i>Sindhu</i> |
| 57 | 1NH16EC751 | SMITHA B S | <i>Smitha</i> |
| 58 | 1NH16EC752 | SWATHI K | <i>Swathi K</i> |
| 59 | 1NH16EC753 | T.R. BHOMIKA | <i>Bhomi</i> |
| 60 | 1NH16EC754 | TARUN SAI REDDY | |
| 61 | 1NH16EC755 | ULTHI KEDARNATH | <i>Kedarnath</i> |
| 62 | 1NH16EC756 | YESHASWINI K M | <i>Yeshaswini</i> |
| 63 | 1NH16EC757 | YUVASHREE R | <i>Yuvashree</i> |
| 64 | 1NH16EC758 | PRAVEEN.S | |
| 65 | 1NH16EC759 | SHASHANK RAO.M | <i>S</i> |
| 66 | 1NH17EC404 | CHIRANJEEVI . K | <i>Chiranjeevi</i> |
| 67 | 1NH17EC405 | B . N CHITHRASREE | <i>B N Chithrasree</i> |
| 68 | 1NH17EC408 | JANARDHANA . T | <i>Janardhana T</i> |
| 69 | 1NH17EC409 | JAYANTH . V | <i>Jayant</i> |
| 70 | 1NH17EC411 | B . J KOWSALYA | <i>B J</i> |
| 71 | 1NH17EC413 | LIKITH B. M | <i>Likith B M</i> |
| 72 | 1NH17EC415 | MANASA . C | <i>Manasa C</i> |
| 73 | 1NH17EC416 | MANOJ . R | <i>Manoj R</i> |
| 74 | 1NH17EC418 | NAVEEN KUMAR . J | |
| 75 | 1NH17EC420 | PRATHAMESH KADAM | <i>P</i> |
| 76 | 1NH17EC421 | RAGHU . R | |
| 77 | 1NH17EC422 | RAHUL JAIN | <i>Rahul</i> |
| 78 | 1NH17EC424 | RAKESH KUMAR . T | |
| 79 | 1NH17EC431 | VASANTH . R | <i>Vasanth R</i> |



NEW BOSTON COLLEGE

THE 30 TECHNOLOGIES OF THE NEXT DECADE

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-------------|--------------------|------------------|-------------------|----------------------|---------------|------------|-----------------|------------------------|----------------------|--------------------|--------------|------------------|---------------------|----------------------|-----------------|-----------------------|----------------|------------------|-----------------------|-----------------------|-------------------|-----------------------|------------------|-----------------------|-------------------------|------------------|--------------------------|--------------------------|
| 1. Artificial Intelligence | 2. Big Data | 3. Cloud Computing | 4. Cybersecurity | 5. Data Analytics | 6. Digital Marketing | 7. E-commerce | 8. Fintech | 9. Gamification | 10. Internet of Things | 11. Mobile Computing | 12. Nanotechnology | 13. Robotics | 14. Social Media | 15. Virtual Reality | 16. Wearable Devices | 17. 3D Printing | 18. Augmented Reality | 19. Blockchain | 20. Smart Cities | 21. Self-driving Cars | 22. Space Exploration | 23. Biotechnology | 24. Quantum Computing | 25. Nanomedicine | 26. Smart Agriculture | 27. Smart Manufacturing | 28. Smart Energy | 29. Smart Transportation | 30. Smart Infrastructure |
|----------------------------|-------------|--------------------|------------------|-------------------|----------------------|---------------|------------|-----------------|------------------------|----------------------|--------------------|--------------|------------------|---------------------|----------------------|-----------------|-----------------------|----------------|------------------|-----------------------|-----------------------|-------------------|-----------------------|------------------|-----------------------|-------------------------|------------------|--------------------------|--------------------------|





REPORT

Date : 09-04-2018

Time : 3:00 – 4:00pm

Expert: Mr.Shivanada Koteswar

Topic: Applications of DSP

The expert lecture started with a brief introduction to DSP, Augmented and virtual reality. An explanation was given on how a signal is processed and transmitted with reference to DAC & ADC. Also a description was given about the process of hearing sound, how sound is captured in the ear and how the brain processes and interprets it.

Later a brief talk was given about the human eye and its wonderful resolution and even elucidated about how a human eye and the brain processes an image with comparison to a DSP processor. Visuals were shown on the camera module in a smartphone.

The concept of AR and VR was explained in detail, where augmented reality is an enhanced vision of the human eye and Virtual reality is where the person is transferred into another dimension, where they can interact with various elements. He briefly explained what is inside a DSP processor and what are its major components, i.e Program memory, Data memory, Compute engine and I/O ports. The working of the processor was explained with a block diagram.

There was a comparison of Microprocessors and DSP processors, where we learnt how these two processors work in a smartphone with reference to the real time and the background process in a smartphone chip. The detailed working of the smartphone's IC, how the NPU (neural processing unit) & the GPU (graphical processing unit) work hand in hand in the simple tasks of a smartphone, everything was explained properly with real time examples and videos.

The last topic for the session was on Biomedical sensors from Mediatek, where an explanation was given on how a small chip could replace various current methods of health monitoring such as Heartrate, Blood Pressure, Pulse, saturation and calorie intake.

The lecture concluded with an interactive session where all the students asked questions and were clarified on spot by the speaker.