

CAY2020-21 Content Beyond Syllabus ECE

| Sl. No | Gap | Action taken | Date-Month-Year | Resource Person with designation | % of Students | Relevance to POs, PSOs |
|---------------|---|---------------------|--------------------------|--|----------------------|--------------------------------------|
| 1. | Non homogeneous PDE (MA8352-Linear Algebra and Partial Differential Equations) | Lecture | 27.10.20 27.10.20 | Ms. R. Kalaiselvi AP/MATHS Ms. R. Kalaiselvi AP/MATHS | 95 95 | PO1,PO2,PO3 |
| 2. | Algorithm Design Techniques (EC8393-Fundamentals of Datastructures in C) | Lecture | 19.10.2020 24.10.2020 | Ms. A. Meena AP/ECE Ms. A. Meena AP/ECE | 96 96 | PO1,PO2,PO3,PO8,PO9, PSO3 |
| 3. | CCD and CMOS sensor technology (EC-8351-Electronic circuits-I) | Lecture | 02.11.2020 02.11.2020 | Dr. P. Karpagavalli ASP/ECE Ms. M. Amudha AP(Sr.Gr.)/ECE | 95 93 | PO1,PO2,PO3,PO8,PO9, PSO1 |
| 4. | Introduction to DFT (EC8352-Signals and Systems) | Lecture | 11.11.2020 11.11.2020 | Dr. S. Subha ASP/ECE Ms. R. Thilagavathy AP(Sr.Gr.)/ECE | 95 | PO1,PO2,PO3,PO8,PO9, PSO2 |
| 5. | Design of ALU using VERILOG (EC8392-Digital Electronics) | Lecture | 07.09.2020 28.10.2020 | Dr. B. Buvaneswari ASP/ECE Ms. T. R. Muthu AP(Sr.Gr.)/ECE | 97 82 | PO1,PO2,PO3, PO4,PO5,PO8,PO9,PSO1 |
| 6. | Lyapunov stability (EC8391-Control System Engineering) | Lecture | 15.10.2020 19.10.2020 | Ms. R. Pavithra AP/ECE Ms. L. Meenakshi AP(Sr.Gr.)/ECE | 74 79 | PO1,PO2,PO3,PO8,PO9, PO10,PSO1 |

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| 7. | Programs involving Preprocessor Directives (EC8381-Fundamentals of Data structures in C laboratory) | Conduct of Experiment | 19.10.2020 28.10.2020 | Mr. A. Meena AP/ECE Mr. D. Anand AP/ECE | 96 100 | PO1,PO2,PO3,PO8,PO9, PO10,PSO3 |
| 8. | Virtual Lab Experiments of combinational logic circuits (EC8361-Analog and Digital Circuits Laboratory) | Conduct of Experiment | 24.10.20 24.10.20 | Dr. P. Karpagavalli/Dr. B. Buvaneswari ASP/ECE Ms. M. Amudha/T. R. Muthu AP(Sr.Gr.)/ECE | 96 100 | PO1,PO2,PO3,PO5, PO8,PO9,PO10,PSO1 |
| 9. | TRELLIS CODE (EC8501- Digital Communication) | Lecture | 12.11.20 12.11.20 | Dr. K. R. Shanthy ASP/ECE Dr. R. Jeyanthi Prof/ECE | 95 95 | PO1,PO2,PO3,PO10,PSO2 |
| 10. | Video Codec (EC8553-Discrete Time Signal Processing) | Lecture | 27.10.20 03.11.2020 | Ms. R. Thilagavathy AP(Sr.Gr.)/ECE Dr. S. Subha ASP/ECE | 100 100 | PO1,PO2,PO8,PO9,PO10, PSO2 |
| 11. | Intel Pentium 4 (EC8552-Computer Architecture and Organization) | Lecture | 12.11.2020 3.11.2020 | Ms. M. Amudha AP(Sr.Gr.)/ECE Mr. S. Ravisankar AP/ECE | 94 97 | PO1,PO2,PO10,PSO3 |
| 12. | Network Security (EC8551-Communication Networks) | Lecture | 3.11.2020 3.11.2020 | Mr. S. R. Naresh ASP/ECE Dr. R. Mohankumar ASP/ECE | 95 95 | PO1, PO2, PO8, PO9, PSO2 |
| 13. | Introduction to body area network, wearable sensors for health care system. (EC8073-Medical Electronics) | Lecture | 28.10.2020 | Mr. S. Selvakumar AP/ECE | 94 | PO1,PO2,PO8,PO9,PO10, PSO1 |
| 14. | Business ethics (GE8077-Total Quality Management) | Lecture | 28.10.2020 | Mr. S. R. Naresh ASP/ECE | 95 | PO1,PO2,PO8,PO9 |
| 15. | Amazon Web Services (AWS) Certification Program (OIT552-Cloud Computing) | Lecture | 16.10.2020 | Dr. R. Mohankumar ASP/ECE Dr. N. Janakiraman Prof/ECE | 93 | PO1,PO2,PO3,PO4,PO10, PO12, PSO3 |

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| 16. | DTMF generation and decoding (EC8562-Digital signal processing Laboratory) | Conduct of Experiment | 3.11.2020 3.11.2020 | Ms. R. Thilagavathy AP(Sr.Gr.)/ECE Dr. S. Subha ASP/ECE | 93 96 | PO1,PO2,PO3,PO4,PO5, PO8,PO9,PO10,PSO2 |
| 17. | Simulation of OFDM systems (EC8561-Communication Systems Laboratory) | Conduct of Experiment | 17.10.2020 17.10.2020 | Ms. R. Pavithra AP/ECE Mr. S. Ravisankar AP/ECE | 93 93 | PO1,PO2,PO3,PO5,PO8, PO9,PO10,PSO2 |
| 18. | Study of NS2 & simulation of congestion control algorithm using NS2 (EC8563-Communication Networks Laboratory) | Conduct of Experiment | 2.11.20 | Mr. S. R. Naresh ASP/ECE Dr. R. Mohankumar ASP/ECE | 95 | PO1,PO2,PO3,PO5,PO8, PO9,PO10,PSO2 |
| 19. | Anechoic chamber (EC8701-Antenna and Microwave Engineering) | Lecture | 27.10.2020 27.10.2020 | Mr. S. Selvakumar AP/ECE Ms. L. Meenakshi | 91 92 | PO1,PO2,PO8,PO9, PSO2 |
| 20. | Fiber in the local loop (EC8751-Optical Communication) | Lecture | 6.10.2020 | Dr. K. R. Shanthy ASP/ECE Dr.S.C.Sivaparakash Prof/ECE | 90 | PO1,PO2,PO8,PO9,PSO2 |
| 21. | Home Security Systems (EC8791-Embedded and Real time systems) | Lecture | 21.10.2020 19.10.2020 | Dr. N. Janakiraman Prof/ECE Mr. D. Anand AP/ECE | 86 | PO1,PO2,PO3, PO8,PO9,PO10, PSO3 |
| 22. | Practical deployment of WSNs (EC8702-ADHOC and Wireless sensor Networks) | Lecture | 19.10.2020 | Dr. P. S. Kumaresh Dr. R. Jeyanthi Prof/ECE | 96 | PO1,PO2, PO3, PO8, PO9,PO10,PSO2 |
| 23. | Machine learning used in computer vision application (CS8082-Machine Learning(Professional Elective)) | Lecture | 29.10.2020 31.10.2020 | Dr. P. Karpagavalli ASP/ECE Dr. V. Kejalakshmi HOD/ECE | 94 97 | PO1, PO2,PO3,PO8,PO9, PSO2 |

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| 24. | virtual reality Roadmap industrial safety (OME754-Industrial Safety(Open Elective)) | Lecture | 4.11.2020 3.10.20 | Mr. S. Ravisankar AP/ECE Ms. T. R. Muthu AP(Sr.Gr.)/ECE | 86 92 | PO7,PO8,PO9,PO10 |
| 25. | Case Study on RTLinux and Mucos –II Rtos (EC8711-Embedded Laboratory) | Conduct of Experiment | 23.10.2020 4.11.2020 | Dr. N. Janakiraman Prof/ECE Ms. L. Meenakshi AP(Sr.Gr.)/ECE | 89 86 | PO1,PO2,PO3,PO5,PO8, PO9,PO10,PSO3 |
| 26. | S-parameter measurement of microstrip LPF using VNA (EC8761-Advanced Communication Laboratory) | Conduct of Experiment | 22.10.20 22.10.20 | Mr. S. Selvakumar/Dr. K. R. Shanthy ASP/ECE Dr. S. C. Sivaprakash/Dr. R. Jeyanthi Prof/ECE | 89 100 | PO1,PO2,PO3,PO4,PO8, PO9,PO10,PSO2 |
| 27. | SpectralDensity (MA8451-Probability and Random Process) | Lecture | 3.4.21 | Dr. S. Sabarinathan ASP/MATHS | 98 | PO1,PO2,PO3 |
| 28. | FinFET devices Technology (EC8452-Electronic Circuits II) | Lecture | 15.04.21 15.04.21 | Mr. S. Selvakumar AP/ECE Ms. M. Amudha AP(Sr.Gr.)/ECE | 94 | PO1,PO2,PO8,PO9,PO10, PSO1 |
| 29. | Spread spectrum communication (EC8491-Communication Theory) | Lecture | 10.3.20 10.3.20 | Ms. R. Thilagavathy AP(Sr.Gr.)/ECE Dr. K. R. Shanthy ASP/ECE | 97 | PO1,PO2,PSO2 |
| 30. | Realize Electrostatic field using MATLAB (EC8451-Electromagnetic Fields) | Lecture | 11.2.21 11.2.21 | Dr. B. Buvaneswari ASP/ECE Ms. T. R. Muthu AP(Sr.Gr.)/ECE | 88 | PO1,PO2,PO3,PO5, PO8,PO9,PSO2 |
| 31. | Notch Filter / Applications of IC555 & IC723 (EC8453-Linear Integrated Circuits) | Lecture | 11.2.21 11.2.21 | Dr. S. Subha ASP/ECE Ms. R. Pavithra AP/ECE | 75 | PO1,PO2,PO3,PO8,PO9, PO10,PSO1 |
| 32. | FM transmitter (EC8461-Circuits design and simulation lab) | Conduct of Experiment | 16.4.21 | Mr. S. Selvakumar AP/ECE Ms. M. Amudha AP(Sr.Gr.)/ECE | 95 | PO1,PO2,PO3,PO5,PO8, PO9,PO10,PSO1 |

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| 33. | Simulation using NIELVIS- Measuring the OP Amp (EC8462-Linear integrated circuits Lab) | Conduct of Experiment | 22.4.21 | Dr. S. Subha ASP/ECE Dr. K. R. Shanthy ASP/ECE | 100 | PO1,PO2,PO3,PO4,PO5, PO8, PO9,PO10,PSO1 |
| 34. | Overview of MSP430 (EC8691-Microprocessor and Microcontrollers) | Lecture | 10.3.21 | Ms. L. Meenakshi AP(Sr.Gr.)/ECE Dr. R. Mohankumar ASP/ECE | 86 | PO1,PO2,PO3,PO8,PO9, PO10,PSO3 |
| 35. | System On Chip (EC8095-VLSI Design) | Lecture | 03.04.2021 | Dr. N. Janakiraman PROF/ECE Ms. M. Amudha AP(Sr.Gr.)/ECE | 95 | PO1,PO2,PO3,PSO3 |
| 36. | MASSIVE MIMO (EC8652-Wireless communication) | Lecture | 3.4.21 | Dr. K. R. Shanthy ASP/ECE Dr. R. Jeyanthi PROF/ECE | 90 | PO1,PO2,PSO2 |
| 37. | Entrepreneurial challenges in the 21st century (MG8591-Principles of Management) | Lecture | 02.04.2021 | Mr. S. R. Naresh ASP/ECE Dr. N. Janakiraman PROF/ECE | 95 | PO1,PO2,PO8,PO9 |
| 38. | study of basics of microstrip lines, strip lines (EC8651-Transmission lines and RF System) | Lecture | 25.3.21 | Dr. S. C. Sivaprakash PROF/ECE | 93 | PO1,PO2,PO3,PO8,PO9, PSO2 |
| 39. | AODV protocol using NS2 (EC8004-Wireless Networks) | Lecture | 25.3.21 | Dr. R. Mohankumar ASP/ECE Mr. S. R. Naresh ASP/ECE | 95 | PO1,PO2,PO8,PO9,PSO2 |
| 40. | Demo on Arduino Board (EC8681--Microprocessor and Microcontrollers lab) | Conduct of Experiment | 2.4.21 | Ms. L. Meenakshi AP(Sr.Gr.)/ECE Dr. R. Mohankumar ASP/ECE | 100 | PO1,PO2,PO8,PO9,PO10, PSO3 |
| 41. | Excercise:1 Simulation of Basic Gates by using Verilog HDL in EDA environment (EC8661-VLSI Design lab) | Conduct of Experiment | 24.01.2021 | Dr. N. Janakiraman PROF/ECE Dr. B. Buvaneshwari ASP/ECE | 76 | PO1,PO2,PO3,PO4,PO5, PO8,PO9,PO10,PSO3 |

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| 42. | Ethical audit (GE8076 Professional Ethics in Engineering (PE-IV)) | Lecture | 7.4.2021 | Dr. P. S. Kumaresh AP(SG)/ECE Mr.S.Ravisankar AP/ECE Ms.T.R.Muthu AP(Sr.Gr.)/ECE | 92 | PO6,PO7,PO8,PO9, PO10,PO12 |
| 43. | Applications of pattern recognition (EC8093 Digital Image Processing) | Lecture | 07.04.21 | Dr.V.Kejalakshmi HOD/ECE | 95 | PO1,PO2,PO3,PO8,PO9, PSO2 |
| 44. | Application of GIS (EC8094 Satellite Communication) | Lecture | 24.01.2021 08.04.21 08.04.21 | Dr. P. Karpagavalli ASP/ECE Ms.R.Thilagavathy AP(Sr.Gr.)/ECE Dr.R.Jeyanthi PROF/ECE | 94 95 95 | PO1,PO2,PSO2 |