



SASURIE COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate, Tirupur 638056

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION - 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

SASURIE COLLEGE OF ENGINEERING



1.2 Academic Flexibility(30)

1.2.1 Number of Value Added/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

AND

1.2.2 Percentage of students enrolled in Value Added/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

| | | | | | |
|------------------------------|---|------------------|--|------------------------------------|-----------------|
| VAC Title: | Wearable and Implantable Electronics | | | | |
| Resource Person: | Mr.Suresh, Manager, Sri Ram Electronics, Coimbatore-641012 | | Peter Paul, CEO, Sri Ram Electronics, Coimbatore-641012 | | |
| Date of conduct from: | 09.12.2019 | To: | 14.12.2019 | Duration: | 36 Hours |
| Organized Department: | ELECTRONICS AND COMMUNICATION ENGINEERING | | | | |
| Participant Year: | 2/3/4 | Semester: | EVEN | No. of Students Registered: | 67 |
| Venue: | Lecture hall of II & III year ECE | | | | |

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

Ref: SCE / ECE / Students / VAC / 2019 – 2020 / EVEN

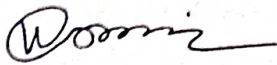
02.12.2019

CIRCULAR

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Electronics and Communication Engineering and IQAC of our Institution in association with Sri Ram Electronics, is organizing a **Value Added Course (VAC)** for the students of II, III and IV year of ECE on the title “**Wearable and Implantable Electronics**” from 09.12.2019 to 14.12.2019. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

- Students, who are securing **more than 70% on total score in the VAC test** and secured more than 75% in VAC attendance is eligible to receive the course completion certificate for the VAC attended.

| | | |
|------------------------------------|---|--|
| Resource Person Details | Mr.Suresh, Manager, Sri Ram Electronics, Coimbatore-641012 | Peter Paul, CEO, Sri Ram Electronics, Coimbatore-641012 |
| Venue | Lecture hall of II & III year ECE | |



HoD/ECE



PRINCIPAL

Copy to:

1. Chairman & Secretary for information
2. Principal office
3. IQAC Co-Ordinator
4. Class In charges - II, III & IV-Year ECE
5. II, III & IV-Year ECE Students
6. ECE Notice Board
7. Department File


Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL



SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

Ref: SCE / ECE / Students / VAC / 2019 – 2020 / EVEN

02.12.2019

SYLLABUS - VALUE ADDED COURSE
“Wearable and Implantable Electronics”

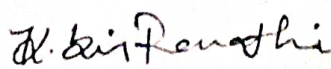
From 09.12.2019 to 14.12.2019 (6 days)

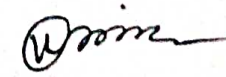
Duration : 36 Hours

Academic Year : 2019 -2020 /EVEN

| S.No. | Topics Covered | Duration (In Hours) | Date |
|-------------|---|------------------------|------------|
| 1 | Introduction to Wearable and Implantable Technologies | 3 | 09.12.2019 |
| 2 | Sensors and Sensing Technologies | 3 | 09.12.2019 |
| 3 | Biocompatibility and Material Science | 3 | 10.12.2019 |
| 4 | Wearable Health Monitoring | 3 | 10.12.2019 |
| 5 | Smart Textiles and Fabrics | 3 | 11.12.2019 |
| 6 | Energy Harvesting and Power Management | 3 | 11.12.2019 |
| 7 | Wireless Communication in Wearables | 3 | 12.12.2019 |
| 8 | Human-Machine Interface (HMI) | 3 | 12.12.2019 |
| 9 | Security and Privacy in Wearable Technology | 3 | 13.12.2019 |
| 10 | Wearable Technology in Sports and Fitness | 3 | 13.12.2019 |
| 11 | Implantable Electronics for Medical Applications | 3 | 14.12.2019 |
| 12 | Regulatory Compliance and Standards | 3 | 14.12.2019 |
| Total Hours | | 36 | - |

After successful completion of 36 Hours VAC, the assessment test for the VAC titled “Wearable and Implantable Electronics” will be conducted on 14.12.2019.


 VAC Coordinator


 HoD/ECE


Dr.M.VIJAYAKUMAR ME., Ph.D.,
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 Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENTS PARTICIPATION LIST - VALUE ADDED COURSE

“Wearable and Implantable Electronics”

From 09.12.2019 to 14.12.2019 (6 days)

Duration : 36 Hours

Academic Year : 2019 -2020 /EVEN

| S.No. | Reg No. | Name of the Student | Year / Branch |
|-------|--------------|---------------------|---------------|
| 1. | 732418106004 | SABITHA A | II/ECE |
| 2. | 732418106005 | SUJITHRA P | II/ECE |
| 3. | 732417106002 | AJITHKUMAR K | III/ECE |
| 4. | 732417106003 | AJITHKUMAR S | III/ECE |
| 5. | 732417106005 | ARAVIND V | III/ECE |
| 6. | 732417106008 | GOKILAVANI M | III/ECE |
| 7. | 732417106010 | JAYASEELAN B | III/ECE |
| 8. | 732417106011 | KAYALVIZHI K | III/ECE |
| 9. | 732417106013 | KOUSALYA DEVI R | III/ECE |
| 10. | 732417106016 | NASREEN BANU J | III/ECE |
| 11. | 732417106017 | NATESH R | III/ECE |
| 12. | 732417106018 | NIMISHA M | III/ECE |
| 13. | 732417106019 | NISHANTH S | III/ECE |
| 14. | 732417106020 | NITHYANANTHAM N | III/ECE |
| 15. | 732417106021 | PARTHIPAN S | III/ECE |
| 16. | 732417106023 | RANJANI S | III/ECE |
| 17. | 732417106024 | SANTHIYA R | III/ECE |
| 18. | 732417106027 | SHANMUGAPRIYA S | III/ECE |
| 19. | 732417106028 | SHARMILA M | III/ECE |
| 20. | 732417106030 | THANGA RATHINAM A | III/ECE |
| 21. | 732417106031 | VEERA SOWNDARIYA P | III/ECE |
| 22. | 732417106033 | VINITHA B | III/ECE |
| 23. | 732417106501 | ARTHI K | III/ECE |
| 24. | 732417106701 | PRATHEEPA S | III/ECE |
| 25. | 732417106702 | SELVARANI C | III/ECE |
| 26. | 732417106703 | KANAGARAJ B | III/ECE |
| 27. | 732417106704 | POOVIZHI R | III/ECE |
| 28. | 732417106705 | PRIYADHARSHINI S | III/ECE |
| 29. | 732417106706 | HEMAPRAKASH C | III/ECE |
| 30. | 732416106001 | AARTHY C | IV/ECE |


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| S.No. | Reg No. | Name of the Student | Year / Branch |
|-------|--------------|---------------------|---------------|
| 31. | 732416106002 | ABISH A | IV/ECE |
| 32. | 732416106004 | ANJALI A | IV/ECE |
| 33. | 732416106006 | BALA MANJULA DEVI R | IV/ECE |
| 34. | 732416106008 | DEEPIKA K | IV/ECE |
| 35. | 732416106009 | DHARANI R | IV/ECE |
| 36. | 732416106011 | ELAVARASAN R | IV/ECE |
| 37. | 732416106013 | JANANI S | IV/ECE |
| 38. | 732416106014 | JEEVITHA S | IV/ECE |
| 39. | 732416106015 | KARTHI A | IV/ECE |
| 40. | 732416106016 | KAVIAMATHI T | IV/ECE |
| 41. | 732416106017 | KAVIYARASU R | IV/ECE |
| 42. | 732416106018 | KEERTHANA PRIYA R | IV/ECE |
| 43. | 732416106019 | MAI.A'THI S | IV/ECE |
| 44. | 732416106020 | MANIKANDAN N | IV/ECE |
| 45. | 732416106021 | MOHANLAL M | IV/ECE |
| 46. | 732416106022 | MOUNIKA S | IV/ECE |
| 47. | 732416106023 | MUTHAMIL SELVAN V | IV/ECE |
| 48. | 732416106024 | NANDHAKUMARAN S | IV/ECE |
| 49. | 732416106025 | NAVEENKUMAR C | IV/ECE |
| 50. | 732416106026 | NIVITHA M | IV/ECE |
| 51. | 732416106028 | PRADEEPA R K | IV/ECE |
| 52. | 732416106029 | PRAKASHKUMAR M | IV/ECE |
| 53. | 732416106030 | SANKAR M | IV/ECE |
| 54. | 732416106031 | SANTHIYA R | IV/ECE |
| 55. | 732416106032 | SANTHOSHKUMAR C | IV/ECE |
| 56. | 732416106033 | SARAN P | IV/ECE |
| 57. | 732416106034 | SARAVANAN R | IV/ECE |
| 58. | 732416106035 | SHARATH CHANDRAS V | IV/ECE |
| 59. | 732416106036 | SHRUTHI R | IV/ECE |
| 60. | 732416106037 | SINDHIKA R | IV/ECE |
| 61. | 732416106038 | SOWNDARYA N | IV/ECE |
| 62. | 732416106039 | SURESH KUMAR S | IV/ECE |
| 63. | 732416106040 | SWETHA S V | IV/ECE |
| 64. | 732416106041 | VASANTHAMANI P | IV/ECE |
| 65. | 732416106042 | VENGADESAN P | IV/ECE |


Dr.M.VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL


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| S.No. | Reg No. | Name of the Student | Year / Branch |
|-------|--------------|---------------------|---------------|
| 66. | 732416106043 | YASODHA S | IV/ECE |
| 67. | 732416106044 | YUVARAJ V | IV/ECE |

H. Vijay Renukhi
VAC Coordinator

Pravin
HoD/ECE

M.V.

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|------|--------------|---------------------|-----------------|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|-----------------------------|-----------------------------|
| | | | | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | | |
| 1. | 732418106004 | SABITHA A | II/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Sabitha A |
| 2. | 732418106005 | SUJITHRA P | II/ECE | / | / | A | / | / | / | / | / | / | / | / | / | 33 | Sujithra P |
| 3. | 732417106002 | AJITHKUMAR K | III/ECE | / | / | A | A | / | / | / | / | / | / | / | / | 30 | Ajith Kumar |
| 4. | 732417106003 | AJITHKUMAR S | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Ajith Kumar |
| 5. | 732417106005 | ARAVIND V | III/ECE | / | / | / | / | A | A | / | / | / | / | / | / | 30 | Aravind V |
| 6. | 732417106008 | GOKILAVANI M | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Gokilvani M |
| 7. | 732417106010 | JAYASEELAN B | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Jayaseelan B |
| 8. | 732417106011 | KAYALVIZHI K | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Kayalvizhi K |
| 9. | 732417106013 | KOUSALYA DEVIR | III/ECE | / | / | / | A | / | / | / | / | / | / | / | / | 33 | Kousalya R |
| 10. | 732417106016 | NASREEN BANU J | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Nasreen Banu J |
| 11. | 732417106017 | NATESH R | III/ECE | / | / | / | / | A | A | / | / | / | / | / | / | 30 | Natesh R |
| 12. | 732417106018 | NIMISHA M | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Nimisha M |
| 13. | 732417106019 | NISHANTH S | III/ECE | / | / | A | A | / | / | / | / | / | / | / | / | 30 | S. Nishanth |

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|------|--------------|---------------------|-----------------|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|-----------------------------|-----------------------------|
| | | | | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | | |
| 14. | 732417106020 | NITHYANANTHAM N | III/ECE | / | / | / | / | / | A | / | / | / | / | / | / | 33 | Nithya |
| 15. | 732417106021 | PARTHIPAN S | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Parthi |
| 16. | 732417106023 | RANJANI S | III/ECE | / | / | / | / | A | A | / | / | / | / | / | / | 30 | S. Ranjan |
| 17. | 732417106024 | SANTHIYA R | III/ECE | / | / | / | / | / | / | / | / | / | A | / | / | 33 | Santhi |
| 18. | 732417106027 | SHANMUGAPRIYA S | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Shanmuga |
| 19. | 732417106028 | SHARMILA M | III/ECE | / | / | A | / | / | / | / | / | / | / | / | / | 33 | M. Sharmila |
| 20. | 732417106030 | THANGA RATHINAM A | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Thanga |
| 21. | 732417106031 | VEERA SOWNDARIYA P | III/ECE | / | / | / | / | / | A | / | / | / | / | / | / | 33 | Veera |
| 22. | 732417106033 | VINITHA B | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Vinitha |
| 23. | 732417106501 | ARTHI K | III/ECE | / | / | A | A | / | / | / | / | / | / | / | / | 30 | Arthi |
| 24. | 732417106701 | PRATHEEPA S | III/ECE | / | / | / | / | / | / | / | / | / | A | / | / | 33 | Pratheepa |
| 25. | 732417106702 | SELVARANI C | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | C. Selva |
| 26. | 732417106703 | KANAGARAJ B | III/ECE | / | / | / | / | / | / | A | / | / | / | / | / | 33 | B. Kanagaraj |
| 27. | 732417106704 | POOVIZHI R | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | R. Poovizhi |
| 28. | 732417106705 | PRIYADHARSHINI S | III/ECE | / | / | / | / | / | / | / | / | A | / | / | / | 33 | S. Priyadharshini |
| 29. | 732417106706 | HEMAPRAKASH C | III/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | C. Hemaprakash |
| 30. | 732416106001 | AARTHY C | IV/ECE | / | / | / | / | A | A | / | / | / | / | / | / | 30 | C. Arthy |
| 31. | 732416106002 | ABISH A | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | A. Abish |
| 32. | 732416106004 | ANJALI A | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | A. Anjali |

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| | | | | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | | |
| 33. | 732416106006 | BALA MANJULA DEVI R | IV/ECE | / | / | / | / | / | / | / | / | / | A | / | / | 33 | Balu |
| 34. | 732416106008 | DEEPIKA K | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Deepika |
| 35. | 732416106009 | DHARANI R | IV/ECE | / | / | / | / | A | A | / | / | / | / | / | / | 30 | Dhara |
| 36. | 732416106011 | ELAVARASAN R | IV/ECE | / | / | / | / | / | / | A | / | / | / | / | / | 33 | Elavarasan |
| 37. | 732416106013 | JANANI S | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Janani |
| 38. | 732416106014 | JEEVITHA S | IV/ECE | / | / | / | / | / | / | / | A | / | / | / | / | 33 | Jeevitha |
| 39. | 732416106015 | KARTHI A | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Karthi |
| 40. | 732416106016 | KAVIAMATHI T | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Kaviyamathi |
| 41. | 732416106017 | KAVIYARASU R | IV/ECE | / | / | / | / | / | / | / | A | / | / | / | / | 33 | Kaviyarasu |
| 42. | 732416106018 | KEERTHANA PRIYA R | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Keerthana |
| 43. | 732416106019 | MALATHI S | IV/ECE | / | / | / | / | / | / | / | / | A | A | / | / | 30 | Malathi |
| 44. | 732416106020 | MANIKANDAN N | IV/ECE | / | / | / | / | A | / | / | / | / | / | / | / | 33 | Manikandan |
| 45. | 732416106021 | MOHANLAL M | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Mohanlal |
| 46. | 732416106022 | MOUNIKA S | IV/ECE | / | / | / | / | / | A | / | / | / | / | / | / | 35 | Mounika |
| 47. | 732416106023 | MUTHAMIL SELVAN V | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Muthamil |
| 48. | 732416106024 | NANDHAKUMARAN S | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Nandhakumar |
| 49. | 732416106025 | NAVEENKUMAR C | IV/ECE | / | / | / | / | / | / | A | / | / | / | / | / | 33 | Naveenkumar |
| 50. | 732416106026 | NIVITHA M | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | Nivitha |
| 51. | 732416106028 | PRADEEPA R K | IV/ECE | / | / | / | / | / | / | A | A | / | / | / | / | 30 | Pradeepa |

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| S.No | Reg No. | Name of the Student | Year/ Branch | 09.12.2019 | | 10.12.2019 | | 11.12.2019 | | 12.12.2019 | | 13.12.2019 | | 14.12.2019 | | No. of Hours Attended | Signature of the Student |
|------|--------------|---------------------|-----------------|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|-----------------------------|-----------------------------|
| | | | | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | | |
| 52. | 732416106029 | PRAKASHKUMAR M | IV/ECE | / | / | / | A | / | / | / | / | / | / | / | / | 33 | <i>Prakash</i> |
| 53. | 732416106030 | SANKAR M | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | <i>M. Sankar</i> |
| 54. | 732416106031 | SANTHIYA R | IV/ECE | / | / | / | A | / | A | / | / | / | / | / | / | 30 | <i>R. Santhiya</i> |
| 55. | 732416106032 | SANTHOSHKUMAR C | IV/ECE | / | / | / | / | A | / | / | / | / | / | / | / | 33 | <i>Santhoskumar</i> |
| 56. | 732416106033 | SARAN P | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | <i>P. Saran</i> |
| 57. | 732416106034 | SARAVANAN R | IV/ECE | / | / | / | / | / | / | / | / | A | / | / | / | 33 | <i>R. Saravanan</i> |
| 58. | 732416106035 | SHARATH CHANDRAS V | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | <i>V. Sharath</i> |
| 59. | 732416106036 | SHRUTHI R | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | <i>R. Shruthi</i> |
| 60. | 732416106037 | SINDHIKA R | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | <i>R. Sindhika</i> |
| 61. | 732416106038 | SOWNDARYA N | IV/ECE | / | / | / | / | / | / | A | / | / | / | / | / | 33 | <i>N. Sowndarya</i> |
| 62. | 732416106039 | SURESH KUMAR S | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | <i>S. Suresh</i> |
| 63. | 732416106040 | SWETHA S V | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | <i>S. Swetha</i> |
| 64. | 732416106041 | VASANTHAMANI P | IV/ECE | / | / | / | / | / | / | / | / | A | / | / | / | 33 | <i>P. Vasanthamani</i> |
| 65. | 732416106042 | VENGADESAN P | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | <i>P. Vengadesan</i> |
| 66. | 732416106043 | YASODHA S | IV/ECE | / | / | A | A | / | / | / | / | / | / | / | / | 30 | <i>S. Yasodha</i> |
| 67. | 732416106044 | YUVARAJ V | IV/ECE | / | / | / | / | / | / | / | / | / | / | / | / | 36 | <i>V. Yuvaraj</i> |

K. Divya Ranjithi
VAC Coordinator

W. Suresh
HoD/ECE


Dr.M.VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL
 SASURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 638 056, Tirupur (Dt).

Report on Value Added Course

| | | | | | |
|------------------------|--|-----|--|-----------|----------|
| Title: | Wearable and Implantable Electronics | | | | |
| Resource Person: | Mr.Suresh, Manager, Sri Ram Electronics, Coimbatore-641012 | | Peter Paul, CEO, Sri Ram Electronics, Coimbatore-641012 | | |
| Date of conduct from : | 09.12.2019 | To: | 14.12.2019 | Duration: | 36 Hours |
| Organized by : | ELECTRONICS AND COMMUNICATION ENGINEERING and IQAC in association with Sri Ram Electronics | | | | |
| Academic Year: | 2019 – 2020 | | Semester: | EVEN | |
| Participant Year: | II, III, IV Year ECE | | No. of Students Participated : | 67 | |
| Venue: | Lecture hall of II & III year ECE | | | | |

Outcome of Value Added Course (VAC)


At the end of the Course, Students can be able to

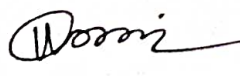
- Gain a comprehensive understanding of the historical evolution, current state, and future trends of wearable and implantable electronics.
- Grasp the significance of materials used in wearable and implantable devices.
- Gain expertise in the integration of electronics into textiles for wearable applications.
- Understand various connectivity protocols and overcome challenges related to wireless communication in wearable devices.
- Comprehend the role of implantable electronics in various medical applications.

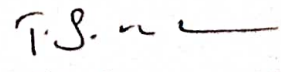
Assessment Process

- Students, who are securing more than 70% on total score in the VAC test and secured more than 75% in VAC attendance is eligible to receive the course completion certificate for the VAC attended
- Total Score = (0.5 * Attendance in VAC out of 100 percentage + 0.5 * Test mark in VAC out of 100 marks)

No. of students successfully completed the VAC course is 67 Students based on the above assessment process.


 VAC Co-ordinator


 HoD/ ECE


 Principal



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


Certificate of Participation

This is to certify that Mr./Ms SABITHA A,II/ECE has
successfully completed the Value Added Course titled "Wearable and Implantable Electronics" Organized by the
Department of Electronics and Communication Engineering in association with IQAC of Sasurie College of
Engineering and Sri Ram Electronics from 09-12-2019 to 14-12-2019 (6 Days).

H. Vijayarathi
Co-ordinator

Dr. M. Vijayakumar
Head of the Department

T. S. N.
Principal

 **Dr.M.VIJAYAKUMAR** ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Certificate of Participation

This is to certify that Mr./Ms SUJITHRA P.H/ECE has successfully completed the Value Added Course titled "Wearable and Implantable Electronics" Organized by the Department of Electronics and Communication Engineering in association with IQAC of Sasurie College of Engineering and Sri Ram Electronics from 09-12-2019 to 14-12-2019 (6 Days).

K. diya Ravi
Co-ordinator

[Signature]
Head of the Department

[Signature]
Principal


 **Dr.M.VIJAYAKUMAR** ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

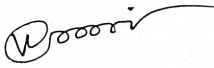



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


Certificate of Participation

This is to certify that Mr./Ms HEMAPRAKASH C.II/ECE has successfully completed the Value Added Course titled "Wearable and Implantable Electronics" Organized by the *Department of Electronics and Communication Engineering* in association with IQAC of Sasurie College of Engineering and Sri Ram Electronics from 09-12-2019 to 14-12-2019 (6 Days).


Co-ordinator


Head of the Department


Principal


Dr.M.VIJAYAKUMAR M.E., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).




DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Certificate of Participation

This is to certify that Mr./Ms GOKILAVANI M,III/ECE has successfully completed the Value Added Course titled "Wearable and Implantable Electronics" Organized by the Department of Electronics and Communication Engineering in association with IQAC of Sasurie College of Engineering and Sri Ram Electronics from 09-12-2019 to 14-12-2019 (6 Days).


Co-ordinator


Head of the Department


Principal

 Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Certificate of Participation

This is to certify that Mr./Ms. ELAVARASAN R,IV/ECE has
successfully completed the Value Added Course titled "Wearable and Implantable Electronics" Organized by the
Department of Electronics and Communication Engineering in association with IQAC of Sasurie College of
Engineering and Sri Ram Electronics from 09-12-2019 to 14-12-2019 (6 Days).

K. S. Ravi
Co-ordinator

P. S. Ravi
Head of the Department

T. S. Ravi
Principal

 **Dr.M.VIJAYAKUMAR** ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

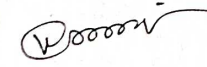



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Certificate of Participation

This is to certify that Mr./Ms BALA MANJULA DEVI R,IV/ECE has successfully completed the Value Added Course titled "Wearable and Implantable Electronics" Organized by the Department of Electronics and Communication Engineering in association with IQAC of Sasurie College of Engineering and Sri Ram Electronics from 09-12-2019 to 14-12-2019 (6 Days).


Co-ordinator


Head of the Department


Principal

 Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 633 056, Tirupur (Dt).

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

TEST QUESTION PAPER - VALUE ADDED COURSE

“Wearable and Implantable Electronics”

From 09.12.2019 to 14.12.2019 (6 days)

Duration : 36 Hours

Academic Year : 2019 -2020 /EVEN

Date of Test : 14.12.2019

MULTIPLE CHOICE QUESTIONS (25 X 1 = 25 Marks)

Name of the Student:

Year/Sem:

AU Register Number:

Answer all the questions:

1. What is the primary function of sensors in wearable devices?
 - a) Power management
 - b) Communication
 - c) Monitoring
 - d) Authentication

2. Which material property is crucial for ensuring biocompatibility in implantable electronics?
 - a) Conductivity
 - b) Flexibility
 - c) Durability
 - d) Biodegradability

3. In the context of energy harvesting, what does "ambient energy" refer to?
 - a) Energy generated from human body movement
 - b) Energy from the surrounding environment
 - c) Solar energy
 - d) Nuclear energy

4. Which wireless communication protocol is commonly used in wearable devices for short-range connectivity?
 - a) NFC
 - b) 4G LTE
 - c) Zigbee
 - d) Satellite communication


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Vijayamangalam - 638 056, Tirupur (Dt).

5. What is a key consideration in the design of human-machine interfaces (HMIs) for wearables?
 - a) Complexity
 - b) Minimalism
 - c) Size
 - d) Weight

6. What does Haptic feedback in wearables refer to?
 - a) Visual display
 - b) Audio signals
 - c) Touch or vibration feedback
 - d) Smell feedback

7. Which regulatory body is commonly involved in approving medical implant devices?
 - a) FCC (Federal Communications Commission)
 - b) FDA (Food and Drug Administration)
 - c) ISO (International Organization for Standardization)
 - d) IEEE (Institute of Electrical and Electronics Engineers)

8. What is the primary purpose of smart textiles in wearable electronics?
 - a) Enhancing aesthetics
 - b) Improving comfort
 - c) Increasing durability
 - d) Enabling wireless communication

9. Which energy source is commonly used for power management in implantable medical devices?
 - a) Battery
 - b) Solar cells
 - c) Radioisotopes
 - d) Kinetic energy

10. In the context of privacy, what is a concern associated with wearable devices?
 - a) Biocompatibility
 - b) Data security
 - c) Power consumption
 - d) Material flexibility

11. What is the primary function of a pacemaker in implantable medical devices?
 - a) Monitoring blood pressure
 - b) Regulating heart rhythm
 - c) Measuring glucose levels
 - d) Enhancing sensory perception

12. Which connectivity standard is commonly used in smart fabrics for data transmission?
 - a) RFID (Radio-Frequency Identification)
 - b) Bluetooth
 - c) Infrared
 - d) Wi-Fi

13. What is the purpose of energy harvesting in wearable devices?
- a) Improving aesthetics
 - b) Enhancing data storage
 - c) Extending battery life
 - d) Increasing device weight
14. Which of the following is NOT a component of a typical wearable health monitoring system?
- a) Gyroscope
 - b) Electrocardiogram (ECG)
 - c) Accelerometer
 - d) Mass spectrometer
15. What role does wireless communication play in the functionality of smart textiles?
- a) Data storage
 - b) Power management
 - c) Connectivity
 - d) Display
16. What does the term "implantable" mean in the context of electronics?
- a) Easily removable
 - b) Designed for external use
 - c) Meant for insertion into the body
 - d) Biodegradable
17. In the context of wearable devices, what is the purpose of biodegradable materials?
- a) Increasing device weight
 - b) Improving durability
 - c) Reducing environmental impact
 - d) Enhancing conductivity
18. Which wireless communication technology is commonly used for long-range connectivity in wearable devices?
- a) Bluetooth
 - b) Wi-Fi
 - c) RFID
 - d) 5G
19. What is the primary consideration for selecting materials in smart fabrics?
- a) Conductivity
 - b) Color
 - c) Texture
 - d) Odor
20. What is the primary function of an accelerometer in a wearable device?
- a) Measuring acceleration
 - b) Monitoring heart rate
 - c) Analyzing sleep patterns
 - d) Providing haptic feedback

21. What is the primary concern when designing a power-efficient wearable device?
- a) Aesthetics
 - b) Biocompatibility
 - c) Battery life
 - d) Connectivity
22. Which factor is critical for the success of wearable technology in the sports and fitness industry?
- a) Aesthetics
 - b) Accuracy of sensors
 - c) Data storage capacity
 - d) Material flexibility
23. What is the primary purpose of energy harvesting in implantable medical devices?
- a) Enhancing communication range
 - b) Extending battery life
 - c) Increasing device weight
 - d) Improving aesthetics
24. What does the term "Regulatory Compliance" refer to in the context of wearable and implantable electronics?
- a) Adhering to international standards and regulations
 - b) Enhancing user experience
 - c) Increasing device complexity
 - d) Reducing production costs
25. What type of technology is commonly used for wireless charging in wearable devices?
- a) Inductive charging
 - b) Solar charging
 - c) Radiofrequency charging
 - d) Piezoelectric charging

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

TEST QUESTION ANSWER KEY - VALUE ADDED COURSE

“Wearable and Implantable Electronics”

From 09.12.2019 to 14.12.2019 (6 days)

Duration : 36 Hours

Academic Year : 2019 -2020 /EVEN

Date of Test : 14.12.2019

| | | | | | | | | | |
|---|---|----|---|----|---|----|---|----|---|
| c | c | 6 | c | 11 | b | 16 | c | 21 | c |
| 2 | b | 7 | b | 12 | a | 17 | c | 22 | b |
| 3 | b | 8 | b | 13 | c | 18 | d | 23 | b |
| 4 | a | 9 | c | 14 | d | 19 | a | 24 | a |
| 5 | b | 10 | b | 15 | c | 20 | a | 25 | a |

K. Srijanawathi
VAC Coordinator

me
Dr.M.VIJAYAKUMAR ME., Ph.D.,
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SASURIE
COLLEGE OF ENGINEERING
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

TEST QUESTION PAPER - VALUE ADDED COURSE

“Wearable and Implantable Electronics”

From 09.12.2019 to 14.12.2019 (6 days)

Duration : 36 Hours

Academic Year : 2019 -2020 /EVEN

Date of Test : 14.12.2019

MULTIPLE CHOICE QUESTIONS (25 X 1 = 25 Marks)

Name of the Student: Nishanth . P

Year/Sem: III / VI

AU Register Number: 732417106019

Answer all the questions:

1. What is the primary function of sensors in wearable devices?
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 - a) Energy generated from human body movement
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 - a) NFC
 - b) 4G LTE
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 - d) Satellite communication

21
25

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PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).



5. What is a key consideration in the design of human-machine interfaces (HMI) for wearables?
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Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSESSMENT SHEET - VALUE ADDED COURSE

“Wearable and Implantable Electronics”

From 09.12.2019 to 14.12.2019 (6 days)

Duration : 36 Hours

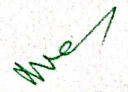
Academic Year : 2019 -2020/ EVEN

| S.No | Reg No. | Name of the Student | Year/ Branch | Attendance Details | | VAC-MCQ TEST | | OVERALL Score (100) (50% of A + 50% of B) |
|------|--------------|---------------------|-----------------|-----------------------------|----------------------------------|------------------------------|------------------------------|---|
| | | | | No. of Hours Attended | Attendance Score (100) (A) | No. of Correct Answers | MCQ Score (100) (B) | |
| 1. | 732418106004 | SABITHA A | II/ECE | 36 | 100 | 19 | 76 | 88 |
| 2. | 732418106005 | SUJITHRA P | II/ECE | 33 | 90 | 19 | 76 | 83 |
| 3. | 732417106002 | AJITHKUMAR K | III/ECE | 30 | 80 | 21 | 84 | 82 |
| 4. | 732417106003 | AJITHKUMAR S | III/ECE | 36 | 100 | 18 | 72 | 86 |
| 5. | 732417106005 | ARAVIND V | III/ECE | 30 | 80 | 20 | 80 | 80 |
| 6. | 732417106008 | GOKILAVANI M | III/ECE | 36 | 100 | 19 | 76 | 88 |
| 7. | 732417106010 | JAYASEELAN B | III/ECE | 36 | 100 | 19 | 76 | 88 |
| 8. | 732417106011 | KAYALVIZHI K | III/ECE | 36 | 100 | 18 | 72 | 86 |
| 9. | 732417106013 | KOUSALYA DEVI R | III/ECE | 33 | 90 | 19 | 76 | 83 |
| 10. | 732417106016 | NASREEN BANU J | III/ECE | 36 | 100 | 19 | 76 | 88 |
| 11. | 732417106017 | NATESH R | III/ECE | 30 | 80 | 20 | 80 | 80 |
| 12. | 732417106018 | NIMISHA M | III/ECE | 36 | 100 | 19 | 76 | 88 |
| 13. | 732417106019 | NISHANTH S | III/ECE | 30 | 80 | 21 | 84 | 82 |


Dr.M.VIJAYAKUMAR M.E., Ph.D.,
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 Vijayamangalam - 638 056, Tirupur (Dt).

ASSESSMENT SHEET - VALUE ADDED COURSE

| S.No | Reg No. | Name of the Student | Year/ Branch | Attendance Details | | VAC-MCQ TEST | | OVERALL Score (100) (50% of A + 50% of B) |
|------|--------------|---------------------|-----------------|-----------------------------|----------------------------------|------------------------------|------------------------------|---|
| | | | | No. of Hours Attended | Attendance Score (100) (A) | No. of Correct Answers | MCQ Score (100) (B) | |
| 14. | 732417106020 | NITHYANANTHAM N | III/ECE | 33 | 90 | 19 | 76 | 83 |
| 15. | 732417106021 | PARTHIPAN S | III/ECE | 36 | 100 | 20 | 80 | 90 |
| 16. | 732417106023 | RANJANI S | III/ECE | 30 | 80 | 21 | 84 | 82 |
| 17. | 732417106024 | SANTHIYA R | III/ECE | 33 | 90 | 18 | 72 | 81 |
| 18. | 732417106027 | SHANMUGAPRIYA S | III/ECE | 36 | 100 | 21 | 84 | 92 |
| 19. | 732417106028 | SHARMILA M | III/ECE | 33 | 90 | 19 | 76 | 83 |
| 20. | 732417106030 | THANGA RATHINAM A | III/ECE | 36 | 100 | 19 | 76 | 88 |
| 21. | 732417106031 | VEERA SOWNDARIYA P | III/ECE | 33 | 90 | 19 | 76 | 83 |
| 22. | 732417106033 | VINITHA B | III/ECE | 36 | 100 | 20 | 80 | 90 |
| 23. | 732417106501 | ARTHI K | III/ECE | 30 | 80 | 21 | 84 | 82 |
| 24. | 732417106701 | PRATHEEPA S | III/ECE | 33 | 90 | 18 | 72 | 81 |
| 25. | 732417106702 | SELVARANI C | III/ECE | 36 | 100 | 21 | 84 | 92 |
| 26. | 732417106703 | KANAGARAJ B | III/ECE | 33 | 90 | 19 | 76 | 83 |
| 27. | 732417106704 | POOVIZHI R | III/ECE | 36 | 100 | 19 | 76 | 88 |
| 28. | 732417106705 | PRIYADHARSHINI S | III/ECE | 33 | 90 | 19 | 76 | 83 |
| 29. | 732417106706 | HEMAPRAKASH C | III/ECE | 36 | 100 | 20 | 80 | 90 |
| 30. | 732416106001 | AARTHY C | IV/ECE | 30 | 80 | 21 | 84 | 82 |
| 31. | 732416106002 | ABISH A | IV/ECE | 36 | 100 | 21 | 84 | 92 |
| 32. | 732416106004 | ANJALI A | IV/ECE | 36 | 100 | 21 | 84 | 92 |


Dr. M. VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL

SASURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 638 056, Tirupur (Dt).

ASSESSMENT SHEET - VALUE ADDED COURSE

| S.No | Reg No. | Name of the Student | Year/ Branch | Attendance Details | | VAC-MCQ TEST | | OVERALL Score (100) (50% of A + 50% of B) |
|------|--------------|---------------------|-----------------|-----------------------------|----------------------------------|------------------------------|------------------------------|---|
| | | | | No. of Hours Attended | Attendance Score (100) (A) | No. of Correct Answers | MCQ Score (100) (B) | |
| 33. | 732416106006 | BALA MANJULA DEVI R | IV/ECE | 33 | 90 | 19 | 76 | 83 |
| 34. | 732416106008 | DEEPIKA K | IV/ECE | 36 | 100 | 20 | 80 | 90 |
| 35. | 732416106009 | DHARANI R | IV/ECE | 30 | 80 | 21 | 84 | 82 |
| 36. | 732416106011 | ELAVARASAN R | IV/ECE | 33 | 90 | 18 | 72 | 81 |
| 37. | 732416106013 | JANANI S | IV/ECE | 36 | 100 | 21 | 84 | 92 |
| 38. | 732416106014 | JEEVITHA S | IV/ECE | 33 | 90 | 19 | 76 | 83 |
| 39. | 732416106015 | KARTHI A | IV/ECE | 36 | 100 | 19 | 76 | 88 |
| 40. | 732416106016 | KAVIAMATHI T | IV/ECE | 36 | 100 | 21 | 84 | 92 |
| 41. | 732416106017 | KAVIYARASU R | IV/ECE | 33 | 90 | 19 | 76 | 83 |
| 42. | 732416106018 | KEERTHANA PRIYA R | IV/ECE | 36 | 100 | 20 | 80 | 90 |
| 43. | 732416106019 | MALATHI S | IV/ECE | 30 | 80 | 21 | 84 | 82 |
| 44. | 732416106020 | MANIKANDAN N | IV/ECE | 33 | 90 | 18 | 72 | 81 |
| 45. | 732416106021 | MOHANLAL M | IV/ECE | 36 | 100 | 21 | 84 | 92 |
| 46. | 732416106022 | MOUNIKA S | IV/ECE | 33 | 90 | 19 | 76 | 83 |
| 47. | 732416106023 | MUTHAMIL SELVAN V | IV/ECE | 36 | 100 | 19 | 76 | 88 |
| 48. | 732416106024 | NANDHAKUMARAN S | IV/ECE | 36 | 100 | 21 | 84 | 92 |
| 49. | 732416106025 | NAVEENKUMAR C | IV/ECE | 33 | 90 | 19 | 76 | 83 |
| 50. | 732416106026 | NIVITHA M | IV/ECE | 36 | 100 | 20 | 80 | 90 |
| 51. | 732416106028 | PRADEEPA R K | IV/ECE | 30 | 80 | 21 | 84 | 82 |

me
Dr.M.VIJAYAKUMAR ME., Ph.D.,
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ASSESSMENT SHEET - VALUE ADDED COURSE

| S.No | Reg No. | Name of the Student | Year/ Branch | Attendance Details | | VAC-MCQ TEST | | OVERALL Score (100) (50% of A + 50% of B) |
|------|--------------|---------------------|-----------------|-----------------------------|----------------------------------|------------------------------|------------------------------|---|
| | | | | No. of Hours Attended | Attendance Score (100) (A) | No. of Correct Answers | MCQ Score (100) (B) | |
| 52. | 732416106029 | PRAKASHKUMAR M | IV/ECE | 33 | 90 | 19 | 76 | 83 |
| 53. | 732416106030 | SANKAR M | IV/ECE | 36 | 100 | 20 | 80 | 90 |
| 54. | 732416106031 | SANTHIYA R | IV/ECE | 30 | 80 | 21 | 84 | 82 |
| 55. | 732416106032 | SANTHOSHKUMAR C | IV/ECE | 33 | 90 | 18 | 72 | 81 |
| 56. | 732416106033 | SARAN P | IV/ECE | 36 | 100 | 21 | 84 | 92 |
| 57. | 732416106034 | SARAVANAN R | IV/ECE | 33 | 90 | 19 | 76 | 83 |
| 58. | 732416106035 | SHARATH CHANDRAS V | IV/ECE | 36 | 100 | 19 | 76 | 88 |
| 59. | 732416106036 | SHRUTHI R | IV/ECE | 36 | 100 | 21 | 84 | 92 |
| 60. | 732416106037 | SINDHIKA R | IV/ECE | 36 | 100 | 20 | 80 | 90 |
| 61. | 732416106038 | SOWNDARYA N | IV/ECE | 33 | 90 | 19 | 76 | 83 |
| 62. | 732416106039 | SURESH KUMAR S | IV/ECE | 36 | 100 | 19 | 76 | 88 |
| 63. | 732416106040 | SWETHA S V | IV/ECE | 36 | 100 | 21 | 84 | 92 |
| 64. | 732416106041 | VASANTHAMANI P | IV/ECE | 33 | 90 | 19 | 76 | 83 |
| 65. | 732416106042 | VENGADESAN P | IV/ECE | 36 | 100 | 20 | 80 | 90 |
| 66. | 732416106043 | YASODHA S | IV/ECE | 30 | 80 | 21 | 84 | 82 |
| 67. | 732416106044 | YUVARAJ V | IV/ECE | 36 | 100 | 21 | 84 | 92 |

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