

**1.2.1 Number of new courses introduced across all programmes offered during the year**



# Sri SAI RAM INSTITUTE OF TECHNOLOGY

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Sai Leo Nagar, West Tambaram, Chennai - 600 044. [www.sairamit.edu.in](http://www.sairamit.edu.in)



## MINUTES OF 5<sup>TH</sup> ACADEMIC COUNCIL MEETING HELD ON 17.03.2023

The 5th Academic council (AC) meeting of Sri Sai Ram Institute of Technology was conducted on 17.03.2023 (Friday) at 10.15 A.M (IST) at Conference Room (I floor) in hybrid mode. Following members were present.

**Dr.K.Palanikumar** Chairman  
Principal  
Sri Sai Ram Institute of Technology, West Tambaram  
Chennai

### EXTERNAL MEMBERS:

**Dr.K.Sankaranarayananasamy** Senior Member  
Director  
National Institute of Technology  
Puducherry  
Thiruvettakudy, Karaikal

**Dr.K.Sundareswaran** University Nominee  
Senior Professor  
Department of EEE  
National Institute of Technology  
Tiruchirappalli

**Prof.Banshidhar Majhi** University Nominee  
Vice Chancellor  
Veer Surendra Sai University of Technology,  
Burla, Sambalpur, Odisha,  
India. PIN:768018

**Prof.Dr.Sudhindra Nath panda** University Nominee  
Vice Chancellor  
C.V.Raman Global University  
Bidyanagar, Mahura, Janla  
Bhubaneswar – 752 054 (Odisha)

**Dr.I.A.Palani** Member  
Dean (Research & Development)  
Indian Institute of Technology Indore  
Khandwa Road, Simrol  
Indore

**Mr.VasudevanRajagopalan**  
Head-Talent Acquisition(India)  
Tata Consultancy Services  
Thoraipakkam, Chennai

**Member**

**Dr.R.Venkatesan**  
Adjunct Professor  
University of Massachusetts  
Dartmouth USA & IIT Bhubaneswar  
National Centre for Coastal Research,  
Ministry of Earth Sciences, NIOT Campus I,  
Chennai 600100.

**Member**

#### **INTERNAL MEMBERS**

**Dr.S.Rajarajan**  
Dean – Academics  
Sri Sai Ram Institute of Technology  
West Tambaram  
Chennai

**Member Secretary**

**Dr.G.Thamaraiselvi**  
Head of the Department  
Department of ECE  
Sri Sai Ram Institute of Technology  
West Tambaram  
Chennai

**Member**

**Dr.B.Sreedevi**  
Head of the Department  
Department of CSE  
Sri Sai Ram Institute of Technology  
West Tambaram  
Chennai

**Member**

**Dr.V.Brindha Devi**  
Head of the Department  
Department of IT  
Sri Sai Ram Institute of Technology  
West Tambaram  
Chennai

**Member**

**Dr.G.Prakash**  
Head of the Department  
Department of EEE  
Sri Sai Ram Institute of Technology  
West Tambaram  
Chennai

**Member**

**Dr.S.Murali** **Member**  
Head of the Department  
Department of Mechanical Engineering  
Sri Sai Ram Institute of Technology  
West Tambaram  
Chennai

**Dr.G. Shanmugasundar** **Member**  
Dean (R&D)  
Sri Sai Ram Institute of Technology  
West Tambaram, Chennai.

**Dr.C.R.Senthilnathan** **Member**  
Head of the Department  
Department of MBA  
Sri Sai Ram Institute of Technology  
West Tambaram  
Chennai

**Dr.Rathika** **Member**  
Associate Professor  
Department of Chemistry  
Sri Sai Ram Institute of Technology  
West Tambaram  
Chennai

**Mr.V.Balaji** **Member**  
Associate Professor  
Department of Mathematics  
Sri Sai Ram Institute of Technology  
West Tambaram  
Chennai

**Dr.K Palanikumar**, Principal and the Chairman of Academic council opened the meeting by welcoming all the members. He then invited **Dr. S.Rajarajan**, Dean (Academics) to place the following agenda for the deliberations and discussions among the members.

**AC.SIT.23.01.01:** To review the Previous 4<sup>th</sup> academic council meeting action points and Action taken.

**AC.SIT.23.01.02:** To review and approve the minutes of BoS of the seven Engineering UG Programmes in CSE, AI-DS, CCE, IT, ECE, EEE, MECH and CSE (Cyber Security).

**AC.SIT.23.01.03:** To review and approve the minutes of BoS of the Two Engineering PG Programmes ISE, Big Data & Management PG Programme MBA

**AC.SIT.23.01.04:** To ratify the Inclusion of one credit and two credit courses under the online course category.

**AC.SIT.23.01.05:** To ratify the inclusion of the course Naalaiya Tiran as directed by Anna University, Chennai to be offered to the UG programme in CSE, ECE and IT for 7th semester students.

- AC.SIT.23.01.06:** To ratify the inclusion of the course Universal Human Values - 2: Understanding the Harmony for the students under open electives category of the UG programme.
- AC.SIT.23.01.07:** To ratify the amendments made in the Regulations R2020 in respect of credit transfer for online courses.
- AC.SIT.23.01.08:** To review and approve the inclusion of Cyber security course into the UG and PG curriculum as per the UGC guidelines vide letter dated 17.10.2022
- AC.SIT.23.01.09:** To review and approve inclusion of the Logistics course into the UG curriculum as an audit course in any of the semesters from 5 to 7 as per the availability of slots in the respective programmes.
- AC.SIT.23.01.10:** To review and approve the following amendments in the existing Regulations R2020 in the following clauses that deals with classification of Degrees.
- AC.SIT.23.01.11:** To review and approve the amendment to be made in clause 16 – categorization of Degree.
- AC.SIT.23.01.12:** To review and approve the following amendments in the existing Regulations R2020 in the following clauses that deals with classification of Grades.
- AC.SIT.23.01.13:** To review and approve the classification of Professional Electives into two categories as Professional Electives - category I and Professional Electives - category II in the R2020 curriculum.
- AC.SIT.23.01.14:** To review and approve the inclusion of Tamil Courses into the UG curriculum as per the Anna University guidelines vide letter dated 01.03.2023.
- AC.SIT.23.01.15:** Any other relevant point with the permission of Chair.

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**AC.SIT.23.01.01:** To review the Previous 4<sup>th</sup> academic council meeting action points and Action taken.

**Resolved to approve the Action Taken Report of the 4th academic council meeting minutes.**

**AC.SIT.23.01.02:** To review and approve the minutes of BoS of the seven Engineering UG Programmes in ECE, CSE, AI-DS, CCE, IT, EEE, MECH and CSE (Cyber Security).

The department of ECE conducted its 5<sup>th</sup> BOS meeting on 11.01.2023 and recommended the following to the academic council for approval.

1. BOS ratified the inclusion of the course Universal human values - II: Understanding Harmony for 5th and 7th semester students under open electives category of the UG programme in ECE.

2. BOS ratified the inclusion of 4 weeks, 8 weeks online courses available under NPTEL Swayam portal for the UG programme in ECE
3. BOS ratified the inclusion of the course Naalaiya Tiran as directed by Anna University, Chennai to be offered to the UG programme in ECE for 7th semester students.

***BOS of ECE resolved the above points and submitted to the Academic council for approval.***

The department of CSE/IT/AIDS/CCE/CSE (CS) conducted its 5<sup>th</sup> BOS meeting on 12.01.2023 and recommended the following to the academic council for approval.

1. BOS ratified the inclusion of the course Universal human values - II: Understanding Harmony for 5th and 7th semester students under open electives category of the UG programme in CSE.
2. BOS ratified the inclusion of 4 weeks, 8 weeks online courses available under NPTEL Swayam portal for the UG programme in CSE
3. BOS ratified the inclusion of the course Naalaiya Tiran as directed by Anna University, Chennai to be offered to the UG programme in CSE for 7th semester students.
4. Approval for inclusion of laboratory subjects in the Professional Elective of the curriculum.
5. To review and approve the NPTEL Courses for Degree with specialization for AI & DS.
6. BoS approved the syllabus of 3<sup>rd</sup> Semester and 4<sup>th</sup> Semester of CSE (Cyber Security).
7. BoS approved the syllabus of 4<sup>th</sup> Semester and 6<sup>th</sup> Semester of CCE.

***BOS of CSE/IT/AIDS/CCE/CSE (CS) resolved the above points and submitted to the Academic council for approval.***

The department of EEE conducted the 5th BOS on 05.01.2023 and recommended the following to the academic council for approval.

1. BOS ratified and approved 20HSMC501- UNIVERSAL HUMAN VALUES 2: UNDERSTANDING HARMONY course conducted for V semester and VII Semester Students.
2. BOS ratified the inclusion of 4 weeks and 8 weeks courses in NPTEL for the UG Program of EEE.
3. BoS approved the modification of syllabus for 20EEPW601-Embedded Systems & IoT with Laboratory

***BOS of EEE resolved the above points and submitted to the Academic council for approval.***

The department of Mechanical engineering conducted the 5th BOS on 18.01.2023 and recommended the following to the academic council for approval.

1. BOS ratified the inclusion of 4 weeks and 8 weeks courses in NPTEL for the UG Program of Mechanical engineering.

2. BoS reviewed and approved the curriculum & syllabus for V and VI semester for UG Programme B.E Mech.

***BoS of Mechanical resolved the above points and submitted them to the Academic council.***

The department of Science and Humanities (S&H) conducted the 5th BOS on 02.03.2023 and recommended the following to the academic council for approval.

1. The BoS approved to change the Course outcomes of Engineering Chemistry and Environmental Science and Engineering course.

***BoS of Science and Humanities resolved the above points and submitted them to the Academic council.***

**Resolved to approve all the above recommendations of the 5th BOS recommendations of the departments of ECE, CSE, AI-DS, CCE, IT, EEE, MECH and CSE (Cyber Security).**

**AC.SIT.23.01.03:** To review and approve the minutes of BoS of the Two Engineering PG Programmes ISE, Big Data & Management PG Programme MBA

The department of Mechanical engineering for their PG Industrial Safety Engineering (ISE) conducted the 5th BOS on 18.01.2023 and recommended the following to the academic council for approval.

1. BoS reviewed and approved the curriculum & syllabus for V and VI semester the Curriculum & Syllabus for PG Program M.E.- ISE.

***BoS of M.E Industrial Safety Engineering (ISE) resolved the above points and submitted them to the Academic council.***

The department of CSE for their PG programme, Big Data Analytics (BDA) conducted the 5th BoS on 12.01.2023 and recommended the following to the academic council for approval.

1. BoS reviewed and approved the curriculum & syllabus the Curriculum & Syllabus for PG Program M.E.- BDA

***BoS of M.E Big Data Analytics (BDA) resolved the above points and submitted them to the Academic council.***

The department of ***Master of Business Administration (MBA)*** conducted the 5th BoS on 08.03.2023 and recommended the following to the academic council for approval.

1. BoS reviewed and approved the curriculum & syllabus the Curriculum & Syllabus for PG Program MBA

***BoS of Master of Business Administration (MBA) resolved the above points and submitted them to the Academic council.***

**Resolved to approve the recommendations of the 5th BOS minutes of the departments of ISE, MBA and BDA.**

AC.SIT.23.01.04

To ratify the inclusion of one credit and two credit courses under the online course category.

1. The members Dr.Sankara Narayanasamy and Dr.Sudhindra Nath Panda have suggested that instead of mandating the NPTEL course it could be offered as an optional course for the students to earn extra credits
2. Dr. Sudhindra Nath Panda has suggested that the faculty members of the institution may be facilitated with MOOC course evaluation, in compliance with the prerequisites needed for the same
3. Dr.Sankara Narayanasamy conveyed that the number of credits earned through NPTEL courses can be considered for awarding the honors degree rather considering the number of courses irrespective of the credits of courses

Resolved to ratify and approve the amendment presented as illustrated below in clauses 4.8, 12.4 and 16.1.

Clause	Present	Amendment
4.8	Students may be permitted to do online courses in the approved agencies (Specified in clause 4.8 (a)). The list of agencies may be approved in the respective board of studies (which are provided with a certificate) with the recommendations of the respective DAB. Students shall do a minimum of two online courses during the entire period of their studies to qualify for the award of degree.	Students may be permitted to do online courses in the approved agencies (Specified in clause 4.8 (a)). The list of agencies may be approved in the respective board of studies (which are provided with a certificate) with the recommendations of the respective DAB. Students shall earn a minimum of six credits through online courses during the entire period of study to qualify for the award of degree.

Clause	Present	Amendment
12.4	Students may be permitted to credit TWO online courses (which are provided with certificate) subject to a maximum of six three credits. The approved list of online courses will be provided by the Office of the Dean Academics from time to time. This online course of 3 credits can be considered to be equivalent to attending one	Students may be permitted to credit online courses (which are provided with certificates) of the following category. The online course of 45hrs duration shall be considered as equivalent to a three credit course  The online course of 30hrs duration shall be considered as equivalent to a two credit course  The online course of 15hrs duration shall be considered as



	elective course. The student needs to obtain certification or credit to become eligible for the award of degree.	equivalent to a one credit course  The approved list of online courses will be provided by the Office of the Dean Academics from time to time.
Inclusion of clause 12.4 (a) : Assessment of Online courses		A maximum of six credits earned through online courses shall be considered for the purpose of credit transfer.  The online courses of 45hrs, 30hrs and 15hrs duration shall be considered for the credit transfer based on the recommendations of the online course evaluation committee.

Clause	Present	Amendment
16.1	A Student can opt for B.E./B.Tech (Honours) at the end of the fourth semester of B.E./B.Tech. programme subject to the conditions prescribed by the Academic Council from time to time. In addition to the requirements specified for First Class with Distinction (vide clause 16.1.2), B.E./B.Tech. (Honours) students must earn a minimum of 20 additional (Professional Elective Category) credits.	A Student can opt for B.E./B.Tech (Honours) at the end of the fourth semester of B.E./B.Tech. programme subject to the conditions prescribed by the Academic Council from time to time. In addition to the requirements specified for First Class with Distinction (vide clause 16.1.2), B.E./B.Tech. (Honours) students must earn a minimum of 18 additional (Professional Elective Category) credits as per the requirements specified in clause 12.4.1.

**AC.SIT.23.01.05** To ratify the inclusion of the course Naalaiya Tiran as directed by Anna University, Chennai to be offered to the UG programme in CSE, ECE and IT for 7<sup>th</sup> semester students.

1. All the members of the committee have appreciated the Initiative of the TN government, to include the course Naalaiya Tiran for all the UG programmes in CSE,IT and ECE of the constituent colleges of Anna University, Chennai
2. Mr.Vasudevan Rajagopalan expressed his view that the initiative will escalate the employability skills of the students in all possible verticals

**Resolved and approved the inclusion of the course Naalaiya Tiran to the UG programme in CSE, ECE and IT.**

**AC.SIT.23.01.06** To ratify the inclusion of the course Universal Human Values - 2: Understanding the Harmony for the students under open electives category of the UG programme.

**Resolved and approved the inclusion of the course Universal Human Values - 2: Understanding the Harmony to the UG programme as Humanities and Science course with 3 credits from AY 2020-21.**

**AC.SIT.23.01.07** To ratify the amendments made in the Regulations R2020 in respect of credit transfer for Online courses..

As per the UGC directions students may be permitted to do online courses to a maximum of 40% on the total number of credits. Hence, it is proposed to permit the students to take up the online courses as per clause 4.8. Hence the required amendment shall be made as given below

<b>Clause</b>	<b>Present</b>	<b>Inclusion</b>
Inclusion of clause 12.4 (a) : Assessment of Online courses	-	A maximum of six credits earned through online courses shall be considered for the purpose of credit transfer.  The online courses of 45hrs, 30hrs and 15hrs duration shall be considered for the credit transfer based on the recommendations of the online course evaluation committee.

**Resolved and ratified the inclusion of credit transfer for online courses for regular and Honours Students.**

**AC.SIT.23.01.08** To review and approve the inclusion of Cyber security course into the UG and PG curriculum as per the UGC guidelines vide letter dated 17.10.2022

**Resolved and approved the inclusion of Cyber security course into UG and PG Curriculum as an audit course. The detailed syllabus may be drafted and approved in the respective board of studies for the implementation**

**AC.SIT.23.01.09** To review and approve inclusion of the Logistics course into the UG curriculum as an audit course in any of the semesters from 5 to 7 as per the availability of slots in the respective programmes.

1. Prof. Dr.Mahji added, the inclusion of the Logistics course into the UG curriculum as an audit course in any of the semesters from 5 to 7 may be offered, provided the students have taken the prerequisite courses

**Resolved and approved the inclusion of the Logistics of the Logistics course into the UG curriculum as an audit course. The detailed syllabus may be drafted and approved in the respective board of studies for the implementation**

**AC.SIT.23.01.10** To review and approve the following amendments in the existing Regulations R2020 in the following clauses that deals with classification of Degrees.

The Controller of Examinations, Dr.G.Thamaraiselvi, has presented the amendments in the Regulations 2020 on the clauses that deals with the classification of degrees and the same has been approved

As directed by the Anna University in its letter dated 16.11.2022 three additional categorizations of Degrees have been included in the existing R2020.

Clause	Present	Amendment
16.1.1	A Student can opt for B.E./B.Tech (Honours) at the end of the fourth semester of B.E./B.Tech. programme subject to the conditions prescribed by the Academic Council from time to time. In addition to the requirements specified for First Class with Distinction (vide clause 16.1.2), B.E./B.Tech. (Honours) students must earn a minimum of 18 additional (Professional Elective Category) credits.	<p>A Student can opt for B.E./B.Tech (Honours) at the end of the fourth semester of B.E./B.Tech. programme subject to the conditions prescribed by the Academic Council from time to time. In addition to the requirements specified for First Class with Distinction (vide clause 16.1.2), B.E./B.Tech. (Honours) students must earn a minimum of 18 additional (Professional Elective Category) credits.</p> <p>Inclusion of clause 16.1.1.a:  <b>B.E./B.Tech Honours. (specialization in the same discipline)</b></p> <ol style="list-style-type: none"> <li>1. The student should have earned additionally a minimum of 18 credits from a vertical of the same programme.</li> <li>2. Should have passed all the courses in the first attempt.</li> <li>3. Should have earned a minimum CGPA of 7.50.</li> </ol> <p>Inclusion of clause 16.1.1.b:  <b>B.E / B.Tech Honours.</b></p>

		<ol style="list-style-type: none"> <li>1. The students should have earned additional courses (minimum of 18 credits) from more than one vertical of the same programme.</li> <li>2. Should have passed all the courses in the first attempt.</li> <li>3. Should have earned a minimum CGPA of 7.50.</li> </ol> <p>Inclusion of clause 16.1.1.c:  <b>B.E./B.Tech. (minor in other specialization)</b></p> <p>The student should have earned additionally a minimum of 18 credits in any one of the verticals of other B.E/B.Tech programmes or from any one of the following verticals :</p> <p>Vertical I: Fintech and block chain  Vertical II: Entrepreneurship  Vertical III: Public administration  Vertical IV: Business data analytics  Vertical V: Environment and Sustainability.</p>
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**Resolved and approved the inclusion of three categories of Degrees to be awarded.**

**AC.SIT.23.01.11** To review and approve the amendment to be made in clause 16 – categorization of Degree to include the following

Clause	Present	Amendment
16.1.1 : B.E./ B.Tech (Honours)	A Student can opt for B.E./B.Tech (Honours) at the end of the fourth semester of B.E./B.Tech. programme subject to the conditions prescribed by the Academic Council from time to time. In addition to the requirements specified for First Class with Distinction (vide clause 16.1.2), B.E./B.Tech.	<ol style="list-style-type: none"> <li>a. B.E./ B. Tech. (Hons) Specialization in the same discipline, B.E / B.Tech. Honors and B.E./B.Tech. minor in other specialization degrees will be optional for students.</li> <li>b. For the categories B.E./ B. Tech. (Hons) Specialization in the same discipline, B.E / B.Tech. Honors, the students will be permitted to register the courses from V Semester onwards provided the marks earned by the students until III semester should be of CGPA 7.50 and above and cleared all the courses in the first attempt.</li> <li>c. For the category B.E./B.Tech. minor in other specialization degree, the students will be permitted to register the courses from Semester V</li> </ol>

	(Honours) students must earn a minimum of 18 additional (Professional Elective Category) credits.	<p>onwards provided the marks earned by the students until Semester III is CGPA 7.50 and above.</p> <p>d. If a student decides not to opt for Honors, after completing a certain number of additional courses, the additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum. If the student has studied more of such courses than the number of Professional Elective courses required as per the curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.</p> <p>e. If a student decides not to opt for Minor, after completing a certain number of courses, the additional courses studied shall be considered instead of Open Elective courses which are part of the curriculum. If the student has studied more of such courses than the number of open electives required as per the curriculum, the courses with higher grades shall be considered for calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.</p>
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**Resolved and approved the inclusion of amendments proposed in respect of clause 16.1.1 as mentioned above for the requirements of the categories of Degrees to be awarded.**

**AC.SIT.23.01.12** To review and approve the following amendments in the existing Regulations R2020 in the following clauses that deals with classification of Grades and in the sub clause 12.1(b) related to Laboratory Courses.

As directed by the Anna University in its letter dated 26.09.2022 one additional categorizations of Grade have been included in the existing R2020. In clause 15, the following modifications have been done.

Clause	Present	Amendment
15	All assessments of a course will be evaluated on an absolute marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each	All assessments of a course will be evaluated on an absolute marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each

<p>carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the candidate in each subject as detailed below:</p> <p>O 91 - 100  A+ 81 - 90  A 71 - 80  B+ 61 - 70  B 50 - 60  For, the grades RA,SA,W,WH  The mark range is NIL</p>	<p>carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the candidate in each subject as detailed below:</p> <p>O 91-100  A+ 81 - 90  A 71 - 80  B+ 61 - 70  B 56 - 60  C 50 - 55  For, the grades RA,SA,W,WH  The mark range is NIL</p>
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Clause	Present	Amendment
12.1 (b)	<p>The maximum marks for Internal Assessment shall be 50 in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise, observations / records maintained and viva-voce. The criterion for arriving at the Internal Assessment marks of 50 is as follows:  20 marks shall be awarded for successful completion of all the prescribed exercises /experiments done in the Laboratory and 30 marks for the two cycle tests.</p>	<p>The maximum marks for internal assessment shall be 60 in case of practical courses. The criteria for arriving at the Internal Assessment marks of 60 is as follows:  75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.</p>

Resolved and approved the amendments made in clause 15 of R2020 for the inclusion of an additional grade "C".

AC.SIT.23.01.13 To review and approve the classification of Professional Electives into two categories as Professional Electives - category I and Professional Electives - category II in the R2020 curriculum

Dr.S.Rajarajan, Dean (Academics) explained that already the curriculum carries the list of courses under Professional Elective (PE) category which are domain specific, which may be renamed as **Professional Electives - General Domain Specific courses**. The course which is to be included now may be listed in Professional Elective as **Professional Electives - Industry connected courses** in the respective department curriculum.

Further for the clarification to the external members it is added that

(i) The elective courses, proposed by the industries, will be offered to students who clear the entry level tests and their requirements. Also the number of vacancies in the industry will be an added criteria for the specific batch of students.

(ii) The elective courses, whether general domain specific or industry specific, is an option for the students to choose their electives. Based on the choice of electives given by the students only, (subject to the satisfaction of clause 6.3) the courses are offered.

**Resolved and approved the naming and inclusion of Professional Electives - Industry connected courses in the curriculum.**

**AC.SIT.23.01.14:** To review and approve the inclusion of Tamil Courses into the UG curriculum as per the Anna University guidelines vide letter dated 01.03.2023.

Dr.Venkatesan, Dr.Sundareswaran and Dr.I.A.Palani have suggested that the translation of content may be provided to facilitate the other state students

**Resolved and approved to include Tamil courses namely, 1.Tamil Tradition and 2.Tamils and Technology as 1 credit courses as per the affiliating University guidelines.**

After back and forth fruitful deliberations, the 5<sup>th</sup> Academic Council meeting ended with a formal vote of thanks by Dr. G.Thamaraiselvi, Controller of Examinations, Sri Sai Ram Institute of Technology.



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The following members were present during this 5<sup>th</sup> Academic Council meeting.

**(Dr.K.Sankaranarayanan)**  
National Institute of Technology  
Puducherry,  
Thiruvettakudy, Karaikal.

**(Dr.K.Sundareswaran)**  
Senior Professor  
Department of EEE  
National Institute of Technology  
Tiruchirappalli

**(Prof.Dr.Sudhindra Nath panda)**  
Vice Chancellor  
C.V.Raman Global University  
Bidyannagar, Bhubaneswar – 752 054  
(Odisha)

**(Prof.Banshidhar Majhi)**  
Vice Chancellor  
Veer Surendra Sai University of  
Technology,  
Burla,Sambalpur, Odisha,  
India. PIN:768018

**(Mr.Vasudevan Rajagopalan)**  
Head-Talent Acquisition(India)  
Tata Consultancy Services  
Thoraiykkam  
Chennai

**(Dr.R.Venkatesan)**  
Scientist 'G' & Programme Director  
National Institute of Ocean Technology  
Pallikaranai  
Chennai

**(Dr.I.A.Palani )**  
Dean (Research & Development)  
Indian Institute of Technology Indore  
Khandwa Road, Simrol  
Indore.

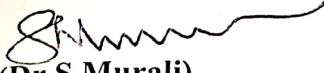
**(Dr.S.Rajarajan)**  
Dean – Academics  
Sri Sai Ram Institute of Technology  
West Tambaram, Chennai

**(Dr.G.Thamaraiselvi)**  
Head of the Department/ ECE  
Sri Sai Ram Institute of Technology  
West Tambaram, Chennai  
Head of the Department

**(Dr.B.Sreedevi)**  
Department of CSE  
Sri Sai Ram Institute of Technology  
West Tambaram, Chennai.

**(Dr.V.Brindha Devi)**  
Department of IT  
Head of the Department  
Sri Sai Ram Institute of Technology  
West Tambaram, Chennai





**(Dr.S.Murali)**

Head of the Department/  
IQAC Coordinator  
Department of Mechanical Engineering  
Sri Sai Ram Institute of Technology  
West Tambaram, Chennai



**(Dr.G. Shanmugasundar)**

Dean(R&D)  
Sri Sai Ram Institute of Technology  
West Tambaram, Chennai



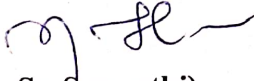
**(Dr.C.R.Senthilnathan)**

Head of the Department/MBA  
Sri Sai Ram Institute of Technology  
West Tambaram, Chennai.



**(Dr.G.Prakash)**

Head of the Department  
Department of EEE  
Sri Sai Ram Institute of Technology  
West Tambaram, Chennai.




**(Dr.Su.Suganthi)**

Head of the Department/AI&DS  
Sri Sai Ram Institute of Technology  
West Tambaram,  
Chennai



**(Dr.M.Priya)**

Head of the Department/CCE  
Sri Sai Ram Institute of Technology  
West Tambaram  
Chennai



**(Dr.Rathika)**

Head of the Department (S&H)  
Department of Chemistry  
Sri Sai Ram Institute of Technology  
West Tambaram, Chennai



**(Mr.V.Balaji)**

Associate Professor  
Department of Mathematics  
Sri Sai Ram Institute of Technology  
West Tambaram, Chennai



**(Dr.K.Palanikumar)**

**Chairman(Academic Council)**

Principal  
Sri Sai Ram Institute of Technology  
West Tambaram  
Chennai.



# SAI RAM INSTITUTE OF TECHNOLOGY

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi  
Accredited by NBA and NAAC 'A+' | An ISO 9001:2015 Certified and MHRD NIRF ranked Institution  
Sai Leo Nagar, West Tambaram, Chennai - 600 044. [www.sairamit.edu.in](http://www.sairamit.edu.in)



No. SSIT, Ch-44/BOS-5/2023

Date: 02/01/2023

## NOTICE

A fifth meeting of the Board of Studies in Electronics and Communication Engineering will be held at 10 am on Wednesday, the 11<sup>th</sup> of January 2023 through hybrid mode at our Sri Sai Ram Institute of Technology, Chennai – 44.

The meeting I.D & Password will be send through email.

T.A & D.A will be paid as per University Rules.

Kindly make it convenient to attend the meeting.

PRINCIPAL

## AGENDA

- 1) Recommendation regarding the curriculum and syllabus.
- 2) Others, if any.

To:

**BOARD OF STUDIES – IN FACULTY OF  
ELECTRONICS AND COMMUNICATION ENGINEERING**

S.No	NAME	DESIGNATION
1	Dr. G. THAMARAI SELVI	Head of the Department, Department of ECE, Sri Sai Ram Institute of Technology, Chennai. <a href="mailto:hodece@sairamit.edu.in">hodece@sairamit.edu.in</a> 8754582229
2	Dr. S.CHITRA	Professor, Department of ECE, Rajalakshmi Engineering College, Chennai. <a href="mailto:chitra.s@rajalakshmi.edu.in">chitra.s@rajalakshmi.edu.in</a> 9894956826
3	Dr.D.THIRIPURASUNDARI	Professor, Department of ECE, VIT – Chennai. <a href="mailto:dthiripurasundari@vit.ac.in">dthiripurasundari@vit.ac.in</a> 9443007246
4	Dr.G.YAMUNA	Professor & Head, Department of ECE, Annamalai University, Chitambaram. <a href="mailto:yamuna.sky@gmail.com">yamuna.sky@gmail.com</a> 9842399987
5	Mr.P.GOWTHAMAN	CEO, Doxtro Technologies, Chennai. <a href="mailto:pg.gowthaman@gmail.com">pg.gowthaman@gmail.com</a> 9840731530
6	Mr. N.R.G. BARATHWAJ	Technical Lead-UI/UX Guardian Life Insurance Company of USA, <a href="mailto:barathwajravichandran@gmail.com">barathwajravichandran@gmail.com</a> , 9176563335
7	Dr.S.RAJARAJAN	Professor, Department of ECE, Sri Sai Ram Institute of Technology, Chennai. <a href="mailto:rajarajan.ece@sairamit.edu.in">rajarajan.ece@sairamit.edu.in</a> , 7708728553
8	Dr.G.SARAVANAN	Associate Professor, Department of ECE, Sri Sai Ram Institute of Technology, Chennai. <a href="mailto:saravanang.ece@sairamit.edu.in">saravanang.ece@sairamit.edu.in</a> , 9445628074
9	Ms.G.VALARMATHI	Associate Professor, Department of ECE, Sri Sai Ram Institute of Technology,

		Chennai. <a href="mailto:valarmathi.ece@sairamit.edu.in">valarmathi.ece@sairamit.edu.in</a> 9789992329
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**Sri Sai Ram Institute of Technology**  
**Sai Leo Nagar, West Tambaram, Chennai – 600 044**  
**Department of Electronics and Communication Engineering**


**Board of Studies (BOS) Meeting**

Date:01.04.2020

As per the directions of UGC regulations vide clause 12(3) and Anna University, Chennai, the BOS for the Department of Electronics and Communication Engineering, Sri Sai Ram Institute of Technology, was formed with the following members. The members will hold the post for two academic years (2020-21 and 2021-22).

- |   |  |
|---|--|
| 1. <b>Dr. Chitra</b><br>Prof., Department of ECE<br>Rajalakshmi Engineering College,<br>Chennai.              | External stake holder<br>(University Representative) |
| 2. <b>Dr. Yamuna</b><br>Prof., & Head, Department of ECE,<br>Annamalai University,<br>Chitambaram.            | External stake holder<br>(Subject Expert)            |
| 3. <b>Dr. Thiripurasundari</b><br>Prof., Dept.of ECE,<br>VIT – Chennai Campus, Chennai.                       | External stake holder<br>(Subject Expert)            |
| 4. <b>Mr.P.Gowthaman</b><br>CEO, Doxtro Technologies,<br>Chennai.   | External stake holder<br>(Industrial Expert)         |
| 5. <b>Mr. N.R.G. Barathwaj</b><br>Technical Lead-UI/UX<br>Guardian Life Insurance Company of USA.<br>Chennai. | External stake holder<br>(Alumni Member)             |
| 6. <b>Dr.S.Rajarajan</b>  | Internal stake holder                                |
| 7. <b>Dr. G.Saravanan</b>   | Internal stake holder                                |
| 8. <b>Ms.G.Valarmathi</b>   | Internal stake holder                                |

Copy to: 1. All the members  
2. The Principal/SIT  
3. File

  
**Dr.G.Thamarai Selvi,**  
Chairman/BOS/ECE  
(Professor& Head/ECE)

**Sri Sai Ram Institute of Technology**  
Sai Leo Nagar, West Tambaram, Chennai – 600 044  
**Department of Electronics and Communication Engineering**

**Minutes of the Fifth Board of Studies meeting**

The Fifth Board of Studies (BOS) meeting of the department of ECE was conducted on 11.01.2023 through hybrid mode (ZOOM) at 10.00 A.M (IST). Following members were present.

- |   |  |
|---|--|
| 1. <b>Dr. S.Chitra</b><br>Prof., Department of ECE<br>Rajalakshmi Engineering College,<br>Chennai.            | External stake holder<br>(University Representative) |
| 2. <b>Dr.G. Yamuna</b><br>Prof., & Head, Department of ECE,<br>Annamalai University,<br>Chitambaram.          | External stake holder<br>(Subject Expert)            |
| 3. <b>Dr.D. Thiripurasundari</b><br>Prof., Dept.of ECE,<br>VIT – Chennai Campus, Chennai.                     | External stake holder<br>(Subject Expert)            |
| 4. <b>Mr.P.Gowthaman</b><br>CEO, Doxto Technologies,<br>Chennai.  | External stake holder<br>(Industrial Expert)         |
| 9. <b>Mr. N.R.G. Barathwaj</b><br>Technical Lead-UI/UX<br>Guardian Life Insurance Company of USA.<br>Chennai. | External stake holder<br>(Alumni Member)             |
| 5. <b>Dr.S.Rajarajan</b>  | Internal stake holder                                |
| 6. <b>Dr. G.Saravanan</b>   | Internal stake holder                                |
| 7. <b>Ms.G.Valarmathi</b>   | Internal stake holder                                |
| 8. <b>Dr.G.Thamarai Selvi</b><br>Professor & Head, ECE<br>Sri Sai Ram Institute of Technology                 | <b>Chairman, BOS/ECE</b>                             |

Dr.G.Thamarai Selvi, Chairman of BOS opened the meeting by welcoming the Members of BOS. A formal welcome speech was given by Ms.G.Valarmathi The chairman placed the following agenda for the deliberations and discussions of the members. The following are the deliberations made during the meeting (as per the items of the circulated agenda).

**Sri Sai Ram Institute of Technology**  
Sal Leo Nagar, West Tambaram, Chennai – 600 044  
**Department of Electronics and Communication Engineering**

**Minutes of the Fifth Board of Studies meeting**

The Fourth Board of Studies (BOS) meeting of the department of ECE was conducted on 11.01.2023 through hybrid mode (ZOOM) at 10.00 A.M (IST). Following members were present.

- |   |  |
|---|--|
| 1. <b>Dr. S.Chitra</b><br>Prof., Department of ECE<br>Rajalakshmi Engineering College,<br>Chennai.            | External stake holder<br>(University Representative) |
| 2. <b>Dr.G. Yamuna</b><br>Prof., & Head, Department of ECE,<br>Annamalai University,<br>Chitambaram.          | External stake holder<br>(Subject Expert)            |
| 3. <b>Dr.D. Thiripurasundari</b><br>Prof., Dept.of ECE,<br>VIT – Chennai Campus, Chennai.                     | External stake holder<br>(Subject Expert)            |
| 4. <b>Mr.P.Gowthaman</b><br>CEO, Doxtro Technologies,<br>Chennai.   | External stake holder<br>(Industrial Expert)         |
| 9. <b>Mr. N.R.G. Barathwaj</b><br>Technical Lead-UI/UX<br>Guardian Life Insurance Company of USA.<br>Chennai. | External stake holder<br>(Alumni Member)             |
| 5. <b>Dr.S.Rajarajan</b>  | Internal stake holder                                |
| 6. <b>Dr. G.Saravanan</b>   | Internal stake holder                                |
| 7. <b>Ms.G.Valarmathi</b>   | Internal stake holder                                |
| 8. <b>Dr.G.Thamarai Selvi</b><br>Professor & Head, ECE<br>Sri Sai Ram Institute of Technology                 | Chairman, BOS/ECE                                    |

Dr.G.Thamarai Selvi, Chairman of BOS opened the meeting by welcoming the Members of BOS. A formal welcome speech was given by Ms.G.Valarmathi. The chairman placed the following

agenda for the deliberations and discussions of the members. The following are the deliberations made during the meeting (as per the items of the circulated agenda).

**BOS.ECE.22.02.01:**

To review and approve the minutes of previous Board of Studies Meeting held on 25.04.2022

- a. **Dr. G.Thamaraiselvi** presented the Action taken report for the minutes of previous Board of studies meeting .
- b. Hod conveyed the subject Television and broadcast services has been changed to Television Engineering and the subject Principles of Engineering Management as Principles of Management as suggested by the committee members.
- c. Latest edition text books has been included for R programming

**BOS.ECE.22.02.02:**

To Review and Approve the 5<sup>th</sup> and 6<sup>th</sup> semester syllabus of ECE department.

- a. **Dr.S.Chitra** suggested to take care of mapping of core syllabus and elective paper.
- b. **Dr. D. Tirupurasundari** insisted to have basic papers in the V semester and advanced papers in the next semester as students will have basic knowledge of the subject .
- c. **Dr. G. Yamuna** suggested latest edition text books need to be included for the subject Digital Communication.
- d. The members suggested to reduce the syllabus for Advanced Communication Systems Lab by combining the simulation experiments from experiment No 8 to 11 and shifting the antenna experiments to antenna laboratory in sixth semester .

**Based on the suggestions given by the members, the Chairman of BOS concluded that the fruitful suggestions will be incorporated appropriately in the curriculum and syllabi**

**BOS resolved to recommend the above points to the Academic Council for further approval.**

**BOS.ECE.22.01.03:**

Open Elective Courses to be offered to UG programme In ECE

- a. **Dr. D. Tirupurasundari** enquired about whether the Elective subject Advanced communication systems and Techniques has any prerequisites for which the chairman presented that communication theory will be studied in fourth semester so they may find it easy while learning the elective Advanced communication systems and



Techniques.

- b. HoD explained that the subjects like Deep learning and Scientific Computing using Matlab are included in the Professional elective list in the sixth Semester.
- c. HoD also explained the list of subjects offered to other departments which includes CSE,IT ,EEE and AIDS.

The members reviewed the following syllabus of courses offered from ECE to EEE and resolved to approve the same.

BOS resolved to recommend the following to the Academic Council for further approval.

1. 20ESEC501-Digital Signal Processing
2. 20ECPC502-VLSI Design
3. 20ECEL505-Digital Image Processing

List of Courses offered for EEE department from ECE as enclosed in Annexure -III.

The members reviewed the following syllabus of courses offered from ECE to CSE and resolved to approve the same.

BOS resolved to recommend the following to the Academic Council for further approval

1. 20ESEC502-Microprocessors and Microcontrollers
2. 20ESPL501-Microprocessor and Microcontrollers Lab

List of Courses offered for CSE department from ECE as enclosed in Annexure -III.

The members reviewed the following syllabus of courses offered from ECE to IT and resolved to approve the same.

BOS resolved to recommend the following to the Academic Council for further approval

1. 20ESEC502-Microprocessors and Microcontrollers
2. 20ESPL501-Microprocessor and Microcontrollers Lab

List of Courses offered for IT department from ECE as enclosed in Annexure -III.

The members reviewed the following syllabus of courses offered from ECE to AIDS and resolved to approve the same.

BOS resolved to recommend the following to the Academic Council for further approval

1. 20AIPC402-BioMedical Signal and Image processing
2. 20AIPL402- BioMedical Image and Signal processing Lab

List of Courses offered for AIDS department from ECE as enclosed in Annexure -III.

**BOS.ECE.22.02.04:**

To review and approve the redrafted CO statement for the courses offered to the UG programme in ECE

- a. **Dr. D. Tirupurasundari**, suggested to make Course outcomes for Live in lab, and HoD agreed to do in the forthcoming semester.
- b. All the committee members suggested including Current edition text books for the subjects.

**BOS.ECE.22.02.05: Online Courses Approval**

HoD presented to the stake holders about the idea of Credit transfer for the online courses. At present the Management is planning to offer credit transfer of Nptel courses.

S.No	Duration	SEM	Credits	NPTEL Course code - Name	Proposed Code	Our Curriculum course code - Name
1.	12 Weeks	VI SEM	3	NOC23-CS48- Computer networks and Internet Protocol	20OLEC601	20ECPC602- Communication networks
2.	12 Weeks	IV SEM	3	NOC23-GE17- Introduction to Environmental Engineering	20OLEC401	20BSCY401- Introduction to Environmental Science and Engineering.

Dr. G.Yamuna appreciated the idea of credit transfer from online courses.

• **BOS ECE 22.01.06:**

HoD Presented that the Inclusion of “**20HSMC501- Universal Human Values II: Understanding Harmony “** V and VII Semester under Regulation 2017 in ECE UG Programme as Open Elective as directed by AICTE.

**BOS.ECE.22.01.07:**

HoD also presented Inclusion of course “**20HSATA101 – Heritage of Tamil”** course under Regulation 2020 in the UG programme in ECE curriculum.

**BOS.ECE.22.01.08:**

Award of Honors Degree

HoD explained the committee about the award of Honors Degree for students. Students having CGPA greater than 8.5 are eligible for Honors degree and five students from our department are ready to apply for Honors degree .

**BOS.ECE.22.02.09:**

**Others, If any**

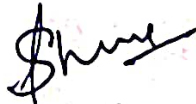
- a. **Mr. P.Gowthaman** suggested to conduct programs in the current field which will impart extra knowledge to students so that they will be more equipped with industry requirement.
- b. **Dr. G.Yamuna** Congratulated the department for organising webinar in Disaster Management paper . As it is new elective for the students , it was eye opener for the students in enhancing their knowledge.
- c. The Alumni students suggested to give importance to the soft skills of the students.

**Based on the suggestions given by the members, the Chairman of BOS told these changes will be considered and forwarded to Academic Council for further approval.**

- a) Syllabus for core courses of B.E. Electronics and Communication Engineering Programme offered in V & VI Semester of Autonomous Curriculum as enclosed in Annexure- I.
- b) List of Professional and Open Elective Courses in B.E. Electronics and Communication Engineering Programme as enclosed in Annexure II.
- c) List of Courses offered for other departments of UG curriculum for the B.E. & B.Tech. degree as enclosed in Annexure III.

**In the concluding remarks, the Chairman stated that the recommendations suggested by the members would be considered.**

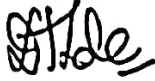
**Meeting then ended with vote of thanks by Ms.G.Valarmathi, Assistant Professor/ECE.**



**Dr. S. Chitra**  
Prof., Department of ECE,  
Rajalakshmi Engineering College,  
Chennai.



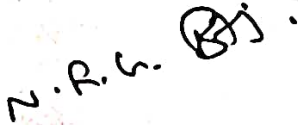
**Dr. G. Yamuna**  
Prof., & Head, Department of ECE,  
Annamalai University,  
Chitambaram



**Dr. D. Thiripurasundari**  
Prof., Dept. of ECE,  
VIT – Chennai Campus, Chennai



**Mr. P. Gowthaman,**  
CEO, Doxtro Technologies  
Chennai.



**Mr. N.R.G. Barathwaj**  
Technical Lead-UI/UX  
Guardian Life Insurance Company of USA,



**Dr. S. Rajarajan**  
Prof., Dept. of ECE,  
Sri Sai Ram Institute of Technology,  
West Tambaram, Chennai-44



**Dr. G. Saravanan**  
Assoc. Prof., Dept. of ECE,  
Sri Sai Ram Institute of Technology,  
West Tambaram, Chennai-44



**Ms. G. Valarmathi**  
Prof., Dept. of ECE,  
Sri Sai Ram Institute of Technology,  
West Tambaram, Chennai-44



**Dr. G. Thamarai Selvi,**  
Chairman, BoS/ECE  
(Professor & Head/ECE)

### ANNEXURE -I

As per the suggestions and modifications prescribed by the respected members of the BoS, the UG curriculum for the B.E. Degree in ECE has been modified and presented below.

#### B.E (ECE) Curriculum Semester V

S.No.	Course Code	Course Title	Hours per week			Total Contact Hours	C
			L	T	P		
<b>THEORY</b>							
1	20ECPC501	Digital Communication	3	0	0	3	3
2	20ECPW501	Discrete Time Signal Processing with Lab	3	0	2	5	4
3	20ECPC502	VLSI Design	3	0	0	3	3
4	20ECELXXX	Professional Elective-I	3	0	0	3	3
5	20XXOEXXX	Open Elective-I	3	0	0	3	3
<b>PRACTICAL</b>							
6	20ECPL501	Communication Systems Lab	0	0	3	3	1.5
7	20ECPL502	VLSI lab	0	0	3	3	1.5
8	20ECTE501	Live-in-Lab 3	0	0	4	4	2
<b>VALUE ADDITIONS-V</b>							
9	20ECTP501	Skill Enhancement	0	0	2	2	1
<b>TOTAL</b>						<b>29</b>	<b>22</b>

#### Semester VI

S.No.	Course Code	Course Title	Hours per week			Total Contact Hours	C
			L	T	P		
<b>THEORY</b>							
1	20ECPC601	Transmission Lines & Antennas	3	0	0	3	3
2	20ECPC602	Communication Networks	3	0	0	3	3
3	20ECPC603	Wireless Communication	3	0	0	3	3
4	20ECELXXX	Professional Elective-2	3	0	0	3	3
5	20XXOEXXX	Open Elective-2	3	0	0	3	3
<b>PRACTICAL</b>							
6	20HSPL501	Communication and Soft Skills Lab	0	0	2	2	1
7	20ECPL601	Antennas lab	0	0	3	3	1.5
8	20ECPL602	Networks Lab	0	0	3	3	1.5
9	20ECPJ601	Innovative Design Project	0	0	2	2	1
<b>VALUE ADDITIONS-VI</b>							
10	20ECTP601	Skill Enhancement	0	0	2	2	1
<b>TOTAL</b>						<b>27</b>	<b>21</b>

**Total Credits**

Semester No.	1	2	3	4	5	6	7	8	Total Credits
Credits	23	22	22.5	24.5	22	21	21	7	163
						Internship			3
						Total Credits			166

## ANNEXURE -II

As per the suggestions and modifications prescribed by the respected members of the BoS, the Professional and Open electives of UG curriculum for the B.E. Degree in ECE has been modified and presented below.

### PROFESSIONAL ELECTIVES- I

S.No.	Course Title	Hours per week			Total Contact Hours	C	Stream
		L	T	P			
1	Radio Access Networks	3	0	0	3	3	Wireless
2	Industrial IOT	3	0	0	3	3	Wireless
3	FPGA & ASIC Design	3	0	0	3	3	VLSI
4	Programmable Logic Controllers	3	0	0	3	3	VLSI
5	Television Engineering	3	0	0	3	3	RF & Green
6	Sensors and RFID	3	0	0	3	3	RF & Green
7	Sensors and measurements	3	0	0	3	3	Signal processing
8	Bio signal and Image Processing	3	0	0	3	3	Signal processing
9	Soft Computing	3	0	0	3	3	Bio medical
10	Control Systems Engineering	3	0	0	3	3	Bio medical
11	Intellectual Property Rights	3	0	0	3	3	Management

### PROFESSIONAL ELECTIVES- II

S.No.	Course Title	Hours per week			Total Contact Hours	C	Stream
		L	T	P			
1	Advanced Communication Systems and Techniques	3	0	0	3	3	Wireless
2	Wireless Sensor Networks	3	0	0	3	3	Wireless
3	CMOS Analog IC Design	3	0	0	3	3	VLSI
4	NEMS and MEMS	3	0	0	3	3	VLSI
5	Electromagnetic Interference and Compatibility	3	0	0	3	3	RF & Green
6	Green Radio Communication Networks	3	0	0	3	3	RF & Green
7	Biomedical Instrumentation	3	0	0	3	3	Signal processing
8	DSP Processor Architecture and Programming	3	0	0	3	3	Signal processing
9	Machine Learning	3	0	0	3	3	Bio medical





6		3	0	0	3	3	
7	Telehealth Technology	3	0	0	3	3	Signal processing
8	Medical Informatics	3	0	0	3	3	Signal processing
9	Robotics and Automation	3	0	0	3	3	Bio medical
10	Medical Imaging systems	3	0	0	3	3	Bio medical
11	Professional Ethics and Values	3	0	0	3	3	Management

### OPEN ELECTIVES

S.No.	Course Title	Hours per week			Total Contact Hours	C
		L	T	P		
1	Digital Electronics	3	0	0	3	3
2	Basic of Biomedical Instrumentation	3	0	0	3	3
3	Sensor Networks	3	0	0	3	3
4	Wireless Networks	3	0	0	3	3
5	Fuzzy Logic	3	0	0	3	3
6	Industrial IOT	3	0	0	3	3
7	Industrial Nanotechnology	3	0	0	3	3
8	Control Systems	3	0	0	3	3
9	Microprocessor & Microcontrollers	3	0	0	3	3
10	Computer Networks	3	0	0	3	3

### ANNEXURE -III

As per the suggestions and modifications prescribed by the respected members of the BoS, the list of Courses offered for other departments of UG curriculum for the B.E. & B.Tech. degree has been modified and presented below.

S.No.	Course Code	Course Title	Hours per week			Total Contact Hours	C	Offered to the Department
			L	T	P			
1	20ESEC301	Communication Engineering	3	0	0	3	3	CSE, IT & EEE
2	20ESEC501	Digital Signal Processing	3	0	0	3	3	EEE
3	20ESEC502	Microprocessors & Microcontrollers	3	0	0	3	3	CSE & IT
4	20ECPC502	VLSI Design	3	0	0	3	3	EEE
5	20ECEL505	Digital Image Processing	3	0	0	3	3	EEE
6	20ESPL501	Microprocessor & Microcontrollers Lab	3	0	0	3	3	CSE & IT
7	20AIPC402	Biomedical Signal and Image Processing	3	0	0	3	3	AIDS
8	20AIPL402	Biomedical Image and Signal Processing Lab	3	0	0	3	3	AIDS

**1.2.2 Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System**



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## PARTICULARS OF ELECTIVES


### Department of Computer Science and Engineering

Academic Year: 2022-2023

#### EVEN Semester

S.No	Degree & Branch	Semester	Elective Subject Code and title	No. of students choosing the elective (Reg.No. not Required here)
1.	B.E/CSE	VIII	CS8078-Green Computing	153
2.	B.E/CSE	VIII	GE8076-Professional Ethics in Engineering	124
3.	B.E/CSE	VIII	CS8074 - Cyber Forensics	29
4.	B.E/CSE	VI	20CSEL601- Software Project Management	129
5.	B.E/CSE	VI	20CSEL602 -Digital Forensics	25

  
HOD  
Dr. B. SREEDevi  
HEAD OF THE DEPARTMENT  
COMPUTER SCIENCE AND ENGINEERING  
SRI RAM INSTITUTE OF TECHNOLOGY  
SAI LEO NAGAR, CHENNAI - 600 044.

  
PRINCIPAL



# Sri SAI RAM INSTITUTE OF TECHNOLOGY

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## PARTICULARS OF ELECTIVES

Department of Computer Science and Engineering

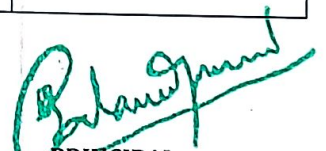
Academic Year: 2022-2023

ODD Semester

S.No	Degree & Branch	Semester	Elective Subject Code and title	No. of students choosing the elective (Reg.No. not Required here)
1.	B.E & CSE	V	20CSEL501 - Data Warehousing and Data Mining	93
2.	B.E & CSE	V	20CSEL504 - Foundation of Data Science	61
3.	B.E & CSE	VII	CS8082 - Machine Learning Techniques	86
4.	B.E & CSE	VII	IT8075 - Software Project Management	67

  
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Dr. B. SREEDevi  
HEAD OF THE DEPARTMENT  
COMPUTER SCIENCE AND ENGINEERING  
SRI SAI RAM INSTITUTE OF TECHNOLOGY  
SAI LEO NAGAR, CHENNAI - 600 044.

  
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## LIST OF ELECTIVES OFFERED FOR APR/MAY- 2022 EXAMINATIONS

### BRANCH WISE / SEMESTER WISE DETAILS (EVEN SEMESTER)

SL.NO	BRANCH CODE	BRANCH NAME	SEM	SUBJECT CODE	SUBJECT NAME	TOTAL NO.OF CANDIDATES
1	205	IT	VIII	CS8074	Cyber Forensics	29
2	205	IT	VIII	GE8076	Professional Ethics in Engineering	66
3	205	IT	VIII	IT8005	Electronic Commerce	60
4	205	IT	VIII	IT8078	Web Design and Managaement	35
5	205	IT	VI	IT8001	Information Storage and Management	36
6	205	IT	VI	IT8076	Software Testing	65

  
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## ELECTIVES DETAILS FOR APR/MAY - 2022 EXAMINATIONS

YEAR/SEM:	III - Year/VI SEM
SUB CODE:	IT8076
SUB. NAME:	Software Testing

SL.NO	ID No.	REG NO	NAME OF THE STUDENT
1	SIT19IT003	412419205036	KANTHIMATHI V
2	SIT19IT013	412419205030	HARTIKA N K
3	SIT19IT017	412419205040	KEERTHANA SRI MEENA S
4	SIT19IT020	412419205039	KEERTHANA V
5	SIT19IT022	412419205069	RAHUL V
6	SIT19IT026	412419205007	AISHWARYA N
7	SIT19IT031	412419205078	SAKTHIVEL M
8	SIT19IT037	412419205005	AISHWARYA B
9	SIT19IT038	412419205008	ANU REKHA S
10	SIT19IT045	412419205086	SRILATHA S
11	SIT19IT047	412419205048	LEKHASHREE M
12	SIT19IT056	412419205015	BHARATHRAJ R
13	SIT19IT057	412419205052	MANOJ E
14	SIT19IT060	412419205061	NARENDERAN S
15	SIT19IT082	412419205002	AAKASH T
16	SIT19IT085	412419205080	SANGEETHA P
17	SIT19IT086	412419205102	YOGA PRIYA D
18	SIT19IT095	412419205017	DEVI BALAJI
19	SIT19IT097	412419205050	MAHALAKSHMI M
20	SIT19IT001	412419205009	ARUNACHALAM PL
21	SIT19IT011	412419205072	RESHMA SRIKRISHNAN
22	SIT19IT015	412419205103	YUVAHARINI A
23	SIT19IT039	412419205016	BHAVANI SREE SK
24	SIT19IT040	412419205035	KALPANA M
25	SIT19IT049	412419205003	ABINAYA VITHIYA U
26	SIT19IT052	412419205057	MERCY P
27	SIT19IT061	412419205042	KESHAV KUMAR P
28	SIT19IT062	412419205064	NITHIYA DEVI S
29	SIT19IT069	412419205062	NITHILASRI T
30	SIT19IT083	412419205094	SWETHA S
31	SIT19IT090	412419205046	LAKSHMI R
32	SIT19IT006	412419205055	MEENAKSHI L
33	SIT19IT058	412419205031	ILAKIYA B
34	SIT19IT059	412419205025	GOWTHAM RAM M
35	SIT19IT063	412419205059	MOHITA VARSHINI A S
36	SIT19IT072	412419205012	BADARI NARAYAN V
37	SIT19IT088	412419205058	MOHAMED ANWAR BASHA S
38	SIT19IT101	412419205091	SWATHY K
39	SIT19IT004	412419205079	SANDHYA L
40	SIT19IT005	412419205065	PADMAJA S
41	SIT19IT007	412419205101	VIVEK RAJ BHAR S



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## ELECTIVES DETAILS FOR APR/MAY - 2022 EXAMINATIONS

YEAR/SEM:	III - Year/VI SEM
SUB CODE:	IT8076
SUB. NAME:	Software Testing

SL.NO	ID No.	REG NO	NAME OF THE STUDENT
42	SIT19IT010	412419205034	JYOTSANA K B
43	SIT19IT014	412419205006	AISHWARYA B
44	SIT19IT019	412419205076	SAI SANJANA N
45	SIT19IT023	412419205087	SRINIVASAN G
46	SIT19IT024	412419205092	SWATHY M
47	SIT19IT025	412419205028	HARINI G
48	SIT19IT032	412419205100	VIHAS S
49	SIT19IT041	412419205037	KARTHICKKUMAR M
50	SIT19IT043	412419205004	ADITYA B J
51	SIT19IT067	412419205060	NANDHAGOPAL V
52	SIT19IT070	412419205066	PAVITHRA K
53	SIT19IT071	412419205082	SARAVANAN S
54	SIT19IT073	412419205020	DINESHKUMAR T
55	SIT19IT074	412419205038	KAVITHAZRI G
56	SIT19IT076	412419205018	DILIPKUMAR T
57	SIT19IT077	412419205067	PRAVEENKUMAR S
58	SIT19IT078	412419205077	SAKTHIVEL A
59	SIT19IT087	412419205023	GAYATHRI R
60	SIT19IT091	412419205044	KIRUBAVATHI U
61	SIT19IT093	412419205096	UDHAYAKUMAR G
62	SIT19IT094	412419205063	NITHISH M
63	SIT19IT096	412419205084	SIVA PONMURUGAN K
64	SIT19IT099	412419205075	ROSHMA EUGIN E R
65	SIT19IT103	412419205041	KEERTHIKA A

  
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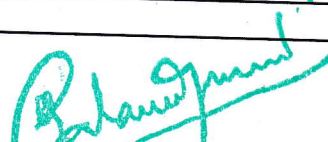


## ELECTIVES DETAILS FOR APR/MAY - 2022 EXAMINATIONS

YEAR/SEM:	III - Year/VI SEM
SUB CODE:	IT8001
SUB. NAME:	Information Storage and Management

SL.NO	ID No.	REG NO	NAME OF THE STUDENT
1	SIT19IT002	412419205022	GAYATHIRI ANARMEE M
2	SIT19IT008	412419205098	UKESH B
3	SIT19IT012	412419205011	ARVIND A
4	SIT19IT016	412419205014	BARATH HARISH ADITHYA J
5	SIT19IT018	412419205010	ARUNESHWAR V
6	SIT19IT021	412419205056	MEGALA J
7	SIT19IT027	412419205021	EASHWAR J
8	SIT19IT035	412419205029	HARSHAVARDHINI D
9	SIT19IT042	412419205043	KIRUBASINI S
10	SIT19IT048	412419205095	THILAKRAJ K
11	SIT19IT054	412419205089	SUBRAMANIAM S
12	SIT19IT055	412419205027	HARIHARAN M
13	SIT19IT065	412419205019	DILLI GANESH P
14	SIT19IT081	412419205024	GOUTHAM KUMAR R
15	SIT19IT092	412419205071	RAJESH KUMAR A
16	SIT19IT009	412419205088	SRI VINAYAGA BARATHAN
17	SIT19IT029	412419205068	PRIYADHARSHINI K
18	SIT19IT030	412419205093	SWETHA M
19	SIT19IT033	412419205013	BALAMURUGAN S
20	SIT19IT036	412419205045	KISHORE V
21	SIT19IT046	412419205001	AAKASH K S
22	SIT19IT050	412419205083	SHANTHA KUMAR T
23	SIT19IT051	412419205026	HANEEN HASSAN
24	SIT19IT064	412419205081	SANJAY K
25	SIT19IT068	412419205032	JAYSURIYA N
26	SIT19IT075	412419205051	MAHIBALAN J
27	SIT19IT089	412419205085	SOMASUNDAR M
28	SIT19IT098	412419205073	ROHAN E
29	SIT19IT100	412419205049	MADHUBALA R
30	SIT19IT102	412419205097	UDHAYAKUMAR G
31	SIT19IT034	412419205074	ROHIT R
32	SIT19IT053	412419205070	RAJESH KANNA R
33	SIT19IT066	412419205033	JYOTHI B R
34	SIT19IT079	412419205047	LAVANYA C B
35	SIT19IT080	412419205090	SWARNA PRIYA R
36	SIT19IT084	412419205053	MANOJ KUMAR S

  
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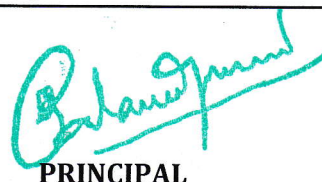


## ELECTIVES DETAILS FOR APR/MAY - 2021 EXAMINATIONS

YEAR/SEM:	IV - Year/VIII SEM
SUB CODE:	IT8078
SUB. NAME:	Web Design and Management

SL.NO	ID No.	REG NO	NAME OF THE STUDENT
1	I8IT002	412418205027	PURANDARA NARAYANAN E
2	I8IT011	412418205051	DEEPAK M
3	I8IT019	412418205002	AISHWARIYA K
4	I8IT038	412418205074	PRAKASH T
5	I8IT044	412418205063	KEVIN RICHARD A
6	I8IT049	412418205055	GAYATHRI S
7	I8IT067	412418205092	VIMAL A
8	I8IT073	412418205023	MOHAMED RIYAZ Z
9	I8IT082	412418205067	MOHANAPPRIYA K
10	I8IT004	412418205020	MAHALAKSHMI S
11	I8IT007	412418205019	MAANSI S
12	I8IT016	412418205056	GAYATHRI GYANAMBAL M
13	I8IT025	412418205090	VIGNESHWARAN E
14	I8IT027	412418205048	BALAJI R
15	I8IT030	412418205006	ASHNI S R
16	I8IT033	412418205080	SAI MAHESH B
17	I8IT039	412418205026	PREETHI L
18	I8IT041	412418205008	BARATH KUMAR V R
19	I8IT052	412418205030	SANJANA K
20	I8IT053	412418205042	YAAMINI SHANKAR
21	I8IT064	412418205001	ABINAYA S
22	I8IT066	412418205069	NAVANEETHAN S
23	I8IT068	412418205061	JEGATHEESH T
24	I8IT069	412418205064	LOGESWARAN S
25	I8IT070	412418205029	SRI RAKSHYA R.V.T
26	I8IT071	412418205057	HARIKRISHNAN S
27	I8IT076	412418205077	RAM PRASATH B R
28	I8IT077	412418205066	MOHAMMED SIRAJUDDIN M K
29	I8IT079	412418205089	SUJITH J
30	I8IT084	412418205072	PAVITHRA P
31	I8IT093	412418205062	JEYA LAKSHMI S
32	SITL19IT01	412418205301	JEYACHANDRAN A
33	I8IT015	412418205045	AJAISARAN B
34	I8IT065	412418205059	HARISH SRINIVASAN S
35	I8IT062	412418205007	BALAVINAYAGAM S

  
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## ELECTIVES DETAILS FOR APR/MAY - 2022 EXAMINATIONS

YEAR/SEM:	IV - Year/VIII SEM
SUB CODE:	IT8005
SUB. NAME:	Electronic Commerce

SL.NO	ID No.	REG NO	NAME OF THE STUDENT
1	I8IT003	412418205014	GEETHA S C
2	I8IT005	412418205036	SRRIVATSAN A S
3	I8IT008	412418205035	SOWNDHARYA LAKSHMI R
4	I8IT009	412418205071	PADMASREE P
5	I8IT018	412418205022	MERIL MC MOS
6	I8IT021	412418205024	MONICA G
7	I8IT022	412418205058	HARINI A
8	I8IT026	412418205053	DEVADHARSHINI MADHAVAN M
9	I8IT029	412418205091	VIGNESHWARAN M
10	I8IT045	412418205073	POOJASHREE S
11	I8IT048	412418205076	PUSHPARAJ M
12	I8IT050	412418205033	SHALINI M
13	I8IT051	412418205017	JAYANTHI K
14	I8IT055	412418205025	PAVETHRA ARULMANI
15	I8IT058	412418205004	AKSHAYAPRABHA P
16	I8IT059	412418205032	SATHISH A
17	I8IT075	412418205039	THIRAIVANAN P
18	I8IT081	412418205093	VINOTH JOSEPH U
19	I8IT086	412418205068	MUTHUMANI G
20	I8IT092	412418205018	LOGESHWARI S
21	SITL19IT02	412418205302	TAMILSELVAN J
22	I8IT006	412418205011	DHARSHINI S
23	I8IT010	412418205085	SOWNDHARYA S
24	I8IT017	412418205005	ANUPAM GHOSH
25	I8IT034	412418205060	HARSHANA A S
26	I8IT043	412418205070	NITHYASRI V
27	I8IT063	412418205015	HARISH M
28	I8IT072	412418205028	RANJITH KUMAR M
29	I8IT083	412418205050	DEEPA S
30	I8IT090	412418205013	GARVIT D JAIN
31	I8IT001	412418205040	VARATHARAJAN S
32	I8IT012	412418205065	MIRUDHULA S
33	I8IT013	412418205079	RITHIK RONALD A
34	I8IT014	412418205084	SOUNDARYA K
35	I8IT020	412418205075	PRASANNA LAKSHMI C
36	I8IT023	412418205021	MANTHIRA PERAKSHI SUDARSON S
37	I8IT024	412418205054	DINESH S
38	I8IT028	412418205046	AKSHATHAAH B K
39	I8IT031	412418205083	SATHISH KUMAR M
40	I8IT032	412418205088	SUBHASHINI K
41	I8IT035	412418205012	GANESH U



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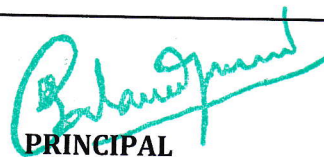


## ELECTIVES DETAILS FOR APR/MAY - 2022 EXAMINATIONS

YEAR/SEM:	IV - Year/VIII SEM
SUB CODE:	IT8005
SUB. NAME:	Electronic Commerce

SL.NO	ID No.	REG NO	NAME OF THE STUDENT
42	I8IT036	412418205016	ISHWARYA E
43	I8IT037	412418205037	SUBHASHINI T
44	I8IT040	412418205010	DEVI SHREE M
45	I8IT042	412418205003	AJAY RAJ P S
46	I8IT046	412418205087	SRI PRIYA K
47	I8IT047	412418205082	SARANYA K
48	I8IT054	412418205034	SIVA RANJANY M
49	I8IT057	412418205081	SAIRAM K
50	I8IT060	412418205038	SWARA RAGA SUDHA M
51	I8IT061	412418205009	DEVANATHAN S
52	I8IT074	412418205043	AADHITHYA S
53	I8IT078	412418205049	BOOBESHWARAN K
54	I8IT080	412418205086	SRIHARIDHA R
55	I8IT085	412418205047	ARAVIND T S
56	I8IT087	412418205052	DEEPIKA G
57	I8IT088	412418205041	VARSHINI S
58	I8IT089	412418205078	ROHITH S
59	I8IT094	412418205044	ABHISHEK VERMA
60	I8IT056	412418205031	SARVESH G

  
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## ELECTIVES DETAILS FOR APR/MAY - 2021 EXAMINATIONS

<b>YEAR/SEM:</b>	<b>IV - Year/VIII SEM</b>
<b>SUB CODE:</b>	<b>GE8076</b>
<b>SUB. NAME:</b>	<b>Professional Ethics in Engineering</b>

SL.NO	ID No.	REG NO	NAME OF THE STUDENT
1	I8IT002	412418205027	PURANDARA NARAYANAN E
2	I8IT003	412418205014	GEETHA S C
3	I8IT008	412418205035	SOWNDHARYA LAKSHMI R
4	I8IT009	412418205071	PADMASREE P
5	I8IT011	412418205051	DEEPAK M
6	I8IT018	412418205022	MERIL MC MOS
7	I8IT019	412418205002	AISHWARIYA K
8	I8IT021	412418205024	MONICA G
9	I8IT022	412418205058	HARINI A
10	I8IT026	412418205053	DEVADHARSHINI MADHAVAN M
11	I8IT029	412418205091	VIGNESHWARAN M
12	I8IT038	412418205074	PRAKASH T
13	I8IT044	412418205063	KEVIN RICHARD A
14	I8IT045	412418205073	POOJASHREE S
15	I8IT048	412418205076	PUSHPARAJ M
16	I8IT049	412418205055	GAYATHRI S
17	I8IT050	412418205033	SHALINI M
18	I8IT051	412418205017	JAYANTHI K
19	I8IT055	412418205025	PAVETHRA ARULMANI
20	I8IT058	412418205004	AKSHAYAPRABHA P
21	I8IT067	412418205092	VIMAL A
22	I8IT073	412418205023	MOHAMED RIYAZ Z
23	I8IT075	412418205039	THIRAIVANAN P
24	I8IT082	412418205067	MOHANAPPRIYA K
25	I8IT086	412418205068	MUTHUMANI G
26	I8IT092	412418205018	LOGESHWARI S
27	SITL19IT02	412418205302	TAMILSELVAN J
28	I8IT001	412418205040	VARATHARAJAN S
29	I8IT012	412418205065	MIRUDHULA S
30	I8IT014	412418205084	SOUNDARYA K
31	I8IT023	412418205021	MANTHIRA PERAKSHI SUDARSON S
32	I8IT024	412418205054	DINESH S
33	I8IT028	412418205046	AKSHATHAAH B K
34	I8IT031	412418205083	SATHISH KUMAR M
35	I8IT032	412418205088	SUBHASHINI K
36	I8IT035	412418205012	GANESH U
37	I8IT040	412418205010	DEVI SHREE M
38	I8IT042	412418205003	AJAY RAJ P S
39	I8IT046	412418205087	SRI PRIYA K
40	I8IT047	412418205082	SARANYA K
41	I8IT060	412418205038	SWARA RAGA SUDHA M



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## ELECTIVES DETAILS FOR APR/MAY - 2022 EXAMINATIONS

<b>YEAR/SEM:</b>	<b>IV - Year/VIII SEM</b>
<b>SUB CODE:</b>	<b>GE8076</b>
<b>SUB. NAME:</b>	<b>Professional Ethics in Engineering</b>

SL.NO	ID No.	REG NO	NAME OF THE STUDENT
42	I8IT061	412418205009	DEVANATHAN S
43	I8IT065	412418205059	HARISH SRINIVASAN S
44	I8IT074	412418205043	AADHITHYA S
45	I8IT078	412418205049	BOOBESHWARAN K
46	I8IT080	412418205086	SRIHARIDHA R
47	I8IT085	412418205047	ARAVIND T S
48	I8IT087	412418205052	DEEPIKA G
49	I8IT088	412418205041	VARSHINI S
50	I8IT094	412418205044	ABHISHEK VERMA
51	I8IT016	412418205056	GAYATHRI GYANAMBAL M
52	I8IT039	412418205026	PREETHI L
53	I8IT041	412418205008	BARATH KUMAR V R
54	I8IT043	412418205070	NITHYASRI V
55	I8IT053	412418205042	YAAMINI SHANKAR
56	I8IT064	412418205001	ABINAYA S
57	I8IT066	412418205069	NAVANEETHAN S
58	I8IT068	412418205061	JEGATHEESH T
59	I8IT070	412418205029	SRI RAKSHYA R.V.T
60	I8IT076	412418205077	RAM PRASATH B R
61	I8IT007	412418205019	MAANSI S
62	I8IT017	412418205005	ANUPAM GHOSH
63	I8IT063	412418205015	HARISH M
64	I8IT069	412418205064	LOGESWARAN S
65	I8IT072	412418205028	RANJITH KUMAR M
66	I8IT090	412418205013	GARVIT D JAIN

  
HOD

  
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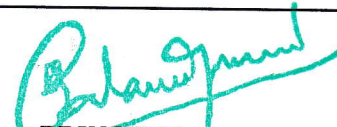


## ELECTIVES DETAILS FOR APR/MAY - 2022 EXAMINATIONS

YEAR/SEM:	IV - Year/VIII SEM
SUB CODE:	CS8074
SUB. NAME:	Cyber Forensics

SL.NO	ID No.	REG NO	NAME OF THE STUDENT
1	I8IT005	412418205036	SRRIVATSAN A S
2	I8IT056	412418205031	SARVESH G
3	I8IT059	412418205032	SATHISH A
4	I8IT062	412418205007	BALAVINAYAGAM S
5	I8IT081	412418205093	VINOTH JOSEPH U
6	I8IT004	412418205020	MAHALAKSHMI S
7	I8IT006	412418205011	DHARSHINI S
8	I8IT010	412418205085	SOWNDHARYA S
9	I8IT025	412418205090	VIGNESHWARAN E
10	I8IT027	412418205048	BALAJI R
11	I8IT030	412418205006	ASHNI S R
12	I8IT033	412418205080	SAI MAHESH B
13	I8IT034	412418205060	HARSHANA A S
14	I8IT052	412418205030	SANJANA K
15	I8IT071	412418205057	HARIKRISHNAN S
16	I8IT077	412418205066	MOHAMMED SIRAJUDDIN M K
17	I8IT079	412418205089	SUJITH J
18	I8IT083	412418205050	DEEPA S
19	I8IT084	412418205072	PAVITHRA P
20	I8IT093	412418205062	JEYA LAKSHMI S
21	SITL19IT01	412418205301	JEYACHANDRAN A
22	I8IT013	412418205079	RITHIK RONALD A
23	I8IT015	412418205045	AJAISARAN B
24	I8IT020	412418205075	PRASANNA LAKSHMI C
25	I8IT036	412418205016	ISHWARYA E
26	I8IT037	412418205037	SUBHASHINI T
27	I8IT054	412418205034	SIVA RANJANY M
28	I8IT057	412418205081	SAIRAM K
29	I8IT089	412418205078	ROHITH S

  
HoD

  
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