AGENDA FOR 16th ACADEMIC COUNCIL MEETING

Date: 27th October, 2023 Time: 11:00 am Venue: MBA – Smart Class Room

Agenda details		Page No.
ITEM - 1	Welcoming Academic Council Members	2
ITEM – 2	Minutes of the 15th Academic Council Meeting held on 29th Oct., 2022	4
ITEM – 3	Review of suggestions by the Academic Council Members – 15th Academic Council Meeting	14
ITEM – 4	Academic Calendar for the AY 2023 – 24	15
ITEM – 5	Academics	
5 (a)	Scheme for BE Programme	15
5 (b)	Approval of the proceedings of the BoS Meetings for the academic year 2023 – 24	58
5 (c)	List of Open Electives offered during AY 2022-23	58
5 (d)	Results & Graduation Day of AY 2021-22	59
5 (e)	Report on NPTEL Chapter	64
ITEM – 6	Approvals from Statutory Bodies	
6 (a)	Report on NBA Accreditation	65
6 (b)	Report on NAAC Accreditation	65
6 (c)	Report on NIRF Ranking	65
6 (d)	Report on Extension of Autonomy by UGC / VTU	67
6 (e)	Report on Permanent affiliation by VTU	67
ITEM – 7	A Brief Report on Student Induction Program for BE - I Year Students of AY 2022 – 23	67
ITEM – 8	Report on Placement activities for the AY 2022 - 23	76
ITEM – 9	Research Accomplishments	
9 (a)	List of PESCE Faculty Members who have obtained Ph.D.	77
9 (b)	Sponsored Research Projects for the AY 2022-23	78
9 (c)	List of Research Publications	81
9 (d)	List of Patents filed till AY 2022 – 23	81
9 (e)	Centres of Excellence established at PESCE	82
ITEM – 10	Report on Industry Institute Interaction Cell	83
ITEM – 11	Report on Institution's Innovation Council (IIC)	90
ITEM – 12	Report on AICTE Activities	96
ITEM – 13	Institutional Activities	
13 (a)	Start of new program and intake enhancement from AY 2022-23	98
ITEM – 14	Extra – Curricular & Sports achievements for the AY 2022 – 23	98
ITEM – 15	Any other matters with the permission of the chair	

ITEM – 1	Academic Council Committee for the period August-2021 to July-2024

Sl. No.	Category	Sl. No.	Name
I	Principal	1.	Dr. H M Nanjundaswamy
II	Vice – Principal	2.	Dr. Vinay S
III	Controller of Examination	3.	Dr. Mahendra Babu K J
IV	All Heads of departments	4.	Dr. N Jagadeesh
		5.	Dr. H C Chowde Gowda
		6.	Dr. Nagarathna
		7.	Dr. Punith Kumar M B
		8.	Dr. K M Mahesh Kumar
		9.	Dr. N L Murali Krishna
		10.	Dr. Minavathi
		11.	Dr. Rudresh Addamani
		12.	Dr. Puttaswamy
		13.	Dr. Thammanna B M
		14.	Dr. Prashanth P A
		15.	Dr. H P Mohan Kumar
		16.	Dr. Alure Gowda
V	Teaching staffs of the college representing at different levels	17.	Dr. Sandeep Kumar D S
		18.	Prof. S K Uma
		19.	Dr. S Ghanaraja
		20.	Dr. Veena M N
		21.	Prof. M Subramanyam
VI	Experts from the outside the college representing areas such as Industry, R&D. Tech Edn.	22.	Mr. P. Nagesh D.G.M. Zonal Head, Ultratech Cement, (South India) Bangalore.
		23.	Vishwanadh Raju HR Axiscadence Bengaluru, Karnataka, India
		24.	Dr. M V Vijayakumar, Professor and Vice-Principal, Information Science & Engineering, Dr. Ambedkar Institute of Technology, Bengaluru.
		25.	Dr. B Uma Dean Academic Affairs Malnad College of Engineering. Hassan
		26.	Dr. H S Prasantha Professor, Department of Electronics & Communication Engineering, NMIT, Bangalore.

VII	Nominees of the VTU	27.	Dr. H C Nagaraj, Member of Academic Senate of VTU, Belagavi and Principal, Nitte Meenakshi Institute of Technology, Bengaluru – 560 064
		28.	Dr. M K Ravishankar Professor, Malnad College of Engineering Hassan.
		29.	Dr. T Vasudev, Dean, Secretary, Maharaja Institute of Technology Mysore Belawdi, Srirangapatna Tq, Mandya, Karnataka – 571477
VIII	Faculty Members – Member Secretary	30.	Dr. B Dinesh Prabhu – Dean (Academic)
		31.	Dr. Umesh D R – Dy. Dean (Academic)
IX	Invitees	32.	Dr. Chandrashekar – Dy. Controller of Examination
		33.	Dr. M C Padma – Dean (Research)
		34.	Dr. Mahesh Koti – Dy. Dean (Research)
		35.	Dr. R Girisha – Dean (III)
		36.	Dr. Sadashiva M – Dy. Dean (III)
		37.	Dr. Kodandarama – Librarian
		38.	Dr. Anitha M L – Prog. Head of Data Science, Dept. of CS&E
		39.	Prof. Geethangali T M - Prog. Head of CS&BS, Dept. of CS&E
		40.	Prof. M C Girish Babu – NIRF & AICTE Coordinator
		41.	Dr. Revanesh M – IIC Coordinator
		42.	Mr. Ananthapadmanabha Prabhu - Assistat Director of Physical Educaiton

ITEM – 2	Minutes of the 15th Academic Council Meeting held on 29th October, 2022

P.E.S COLLEGE OF ENGINEERING, MANDYA – 571 401

(An Autonomous Institution Affiliated to VTU, Belagavi)

No. PES/DEAN-ACAD/2022-23/1 19th October, 2022

CIRCULAR

Sub: 15th Academic Council Meeting – Reg.

The **15th Academic Council Meeting** of **PES College of Engineering, Mandya (Autonomous)** is scheduled on **29th October, 2022, Saturday** at **10.30AM** in **MBA – Smart Class Room.** In this regard. We kindly request to make yourself convenient to attend the meeting and provide us with your valuable suggestions.

The Agenda for the meeting is enclosed herewith for your kind perusal.

Thanking you,

19.10.2022

Dr. R Girisha
Dean (Academic)

Dr. R. Girisha
Dean (Academic)
PES C.E. Mandya.

Dr. R M Mahalinge Gowda
Principal PRINCIPAL
PES College of Engineering
Mandya - 571 401.

Copy to:

1. **Controller of Examination**
2. **The Heads' of**
   - **All BE / M.Tech Programs**
   - **MCA**
   - **MBA**
   - **Mathematics, Physics & Chemistry Depts.**
   - **Training and Placement Officer**
   - **Librarian**
   - **Dean (III)**
   - **Dean & Dy. Dean (Research)**
   - **Physical Education Director**
3. **Teachers of the college representing different level of teaching staff.**
4. **Expert from outside the college representing areas such as Industry, Research & Development, Technical Education.**
5. **Nominees of the VTU**
6. **Invitees**
7. **Special Invitees**
   - **Prof. M C Girish Babu – NIRF & AICTE Coordinator**
   - **Prof. Siddesh Kumar N M – IIC Coordinator**

P.E.S COLLEGE OF ENGINEERING, MANDYA – 571 401

(An Autonomous Institution Affiliated to VTU, Belagavi)

Proceedings of the 15th Academic Council Meeting held on Saturday, 29th October, 2022 under the Chairmanship of Dr. R M Mahalinge Gowda, Principal, PESCE, Mandya

Members Present

- Dr. R M Mahalinge Gowda – Chairman (AC) & Principal, PESCE, Mandya
- Dr. M K Ravishankar- Professor, MCE, Hassan
- Dr. T Vasudev – Dean, MIT, Mysuru
- Dr. M V Vijayakumar, Vice - Principal, Dr. AIT, Bangalore.
- Dr. B Uma, Dean, MCE, Hassan
- Dr. R Girisha, Dean (Academic)
- Dr. Umesh D R – Dy. Dean (Academic)
- Dr. N L Murali Krishna - Controller of Examination
- Prof. K Ramesh – Prof. & Head (AE)
- Dr. T M Prakash – Prof. & Head (CE)
- Dr. Nagarathna - Prof. & Head (CS)
- Dr. M J Anand - Prof. & Head (EC&E)
- Prof. D M Srinivas - Prof. & Head (EE&E)
- Dr. H M Nanjundaswamy - Prof. & Head (I&PE)
- Dr. M L Anitha – Prof. & Head (IS&E)
- Dr. Rudresh Addamani – Prof. & Head (ME)
- Dr. B S Shanmukha – Prof. & Head (Maths)
- Dr. Shivalingegowda – Prof. & Head (Physics)
- Dr. H Ramachandra – Prof. & Head (Chemistry)
- Dr. H P Mohan Kumar – Prof. & Head (MCA)
- Dr. Aluregowda – Prof. & Head (MBA)
- Prof. S K Uma – Associate Professor (CS&E)
- Dr. N Jagadeesha - Dean (Research)
- Dr. M R Srinivas – Dean (III)
- Dr. K. J. Mahendra Babu – Dy. CoE
- Dr. K M Mahesh Kumar – Dy. Dean (Research)
- Dr. Vinay S – Training & Placement Officer
- Mr. Kodandarama – Librarian
- Prof. Girish Babu M C – NIRF Coordinator
- Prof. Siddesh Kumar N M – IIC Coordinator
- Dr. Anatha Padmanabha Prabh – Physical Education Director

29/11/22

P.E.S COLLEGE OF ENGINEERING, MANDYA – 571 401

(An Autonomous Institution Affiliated to VTU, Belagavi)

Members Absent

- Dr. H C Nagaraj- Principal, NMIT, Bangalore.
- Mr. Nagesh P - D.G.M. Zonal Head, Ultratech Cement, (South India) Bangalore.
- Vishwanadh Raju HR- Axiscadence, Bangalore.
- Dr. H S Prasantha, Professor, NMIT, Bangalore.
- Prof. M Subramanya - Associate Professor (EC&E)

ITEM – 1: Welcome the Members of Academic Council – XV

At the outset, the Chairman, welcomed the Honourable Academic Council members for the 15th Academic Council Meeting.

The following subjects as per the agenda have been discussed in the meeting and resolutions passed accordingly.

ITEM – 2: Approval of Minutes of the 14th Academic Council Meeting held on 30th September, 2021

Resolved to approve the proceedings of the 14th Academic Council Meeting held on 30th September, 2021.

–Approved–

ITEM – 3: Action taken on the 14th Academic Council Meeting 30th September, 2021

The Action taken on the proceedings of the 14th Academic Council Meeting was brought to the notice of all Academic Council Members and the same was appreciated and also approved by the Members.

–Approved–

ITEM – 4: Academic Calendar for the AY 2022 – 23

The tentative Academic Calendar for the Academic year 2022 – 23 (Odd Semester) [Except I year UG / PG Programs] was placed before the members and the same was got **approved.** The Council members also suggested to prepare the academic calendar for I year UG / PG Programs depending upon the admission of students.

–Approved–

29/11/22

P.E.S COLLEGE OF ENGINEERING, MANDYA – 571 401

(An Autonomous Institution Affiliated to VTU, Belagavi)

ITEM – 5(a): Approval of Academic Regulations for BE [P21 Scheme], MCA & MBA [P22 Scheme] Program

The Academic Regulations for BE [P21 Scheme] was circulated to the members and after discussion, it was **resolved**.

Further, academic regulations for MCA and MBA [P22 Scheme] programmes were retained w.r.t. the previous scheme regulations until and unless fresh guidelines are issued by the university.

–Approved–

ITEM – 5(b): Approval of P21 NEP Scheme for BE – II to IV Year.

The P21 NEP Scheme for BE – II to IV Year was presented before council and got **approved**.

Further, the Syllabus for B.E – P21 Scheme [3rd – 4th Semester] of all UG programs, which were initially approved in the BoS of the respective departments brought to the notice of academic council and got it **approved**.

–Approved–

ITEM – 5(c): Approval of P22 Scheme for MCA Programme.

The P22 NEP Scheme and Syllabus for MCA Programme was placed before the council and the same was got **approved** with minor changes by the academic council.

–Approved–

ITEM – 5(d): Approval of P22 Scheme for MBA Programme.

The P22 NEP Scheme and Syllabus for MBA Programme was placed before the AC and the same was got **approved** with minor changes.

–Approved–

ITEM – 5(e): Approval of the proceedings of the BoS Meetings for the AY 2022 – 23

The BOS meetings for the academic year 2022 – 23 were conducted by the respective departments for framing the BE Syllabus for III & IV Semester (P21 Scheme), MCA (P22 Scheme) and MBA (P21 Scheme) Syllabus. After reviewing the proceedings, the same was approved by the academic council.

–Approved–

29/11/22

P.E.S COLLEGE OF ENGINEERING, MANDYA – 571 401

(An Autonomous Institution Affiliated to VTU, Belagavi)

ITEM – 5(f): Open Electives offered during the AY 2021 - 22

The Open Electives offered for the AY 2021 - 22 were brought to the notice of the members and the same approved by the Academic Council. The Council members suggested to offer emerging technology courses as an Open elective course.

-Approved-

ITEM – 5(g): Results and Graduation Day of AY 2020 – 21

Dr. N L Murali Krishna – Controller of Examination, briefed the Hon'ble members that the institution had conducted its 12th Graduation Day on 25th December 2021 in the college campus. On the Graduation Day, a total number of 842 students (UG: 719; PG: 123) graduated from the institute for the academic year 2020 – 21 along with the list was approved by the Academic Council. The principal and chairman also informed the members of the academic council that the 13th Graduation Day would be held in month of December 2022.

-Approved-

ITEM – 5(h): NPTEL Chapter

The offering of NPTEL courses has been made mandatory for both UG and PG students, and the same was appreciated by the members. The Hon'ble members suggested that the faculties should take the NPTEL course seriously to update their knowledge by appearing for an NPTEL examination.

ITEM – 6(a): NBA Accreditation

The present accreditation status of eight UG programs was brought to the notice of the members. They appreciated the efforts put in by the Principal and Staff towards NBA accreditation. Further, the members suggested to get accreditation for PG Programs also.

ITEM – 6(b): NAAC Accreditation

The members suggested to improve the NAAC grade in the coming years and expressed the satisfaction for the submission of Annual Quality Assurance Report (AQAR) – 2021 to NAAC.

29/11/22

ITEM – 6(c): NIRF Ranking

Hon'ble members applauded the 137th rank achieved by PESCE under the NIRF Engineering Category by MHRD. Members expressed that PESCE could make efforts to be among the top 100 premier technical institutions in India.

The Members suggested for having a ranking committee at the institutional level to look into the details and analyse the NIRF parameters. Corrective measures need to be taken based on the recommendations of the committee.

ITEM – 6(d): Extension of Autonomy by UGC / VTU

The Dean briefed about the autonomous status of PESCE extended for a period of five years w.e.f. 2019 – 20 to 2023 – 24 including ex-post-facto approval for the period 2017 – 18 to 2018 – 19.

ITEM – 6(e): Permanent affiliation by VTU

The Dean also briefed of Permanent affiliation status conferred by Visvesvaraya Technological University, Belagavi up to 2024-25 to all UG & PG courses (Except Master of Computer Application)

ITEM – 7: Student Induction Program for I Year Students of AY 2021 – 22

Dr. Shivalingegowda, Coordinator for Student Induction Program - highlighted the 3-week Induction Program activities conducted for the newly admitted UG students during the AY 2021 – 22. The members were satisfied by the method followed for the induction program.

ITEM – 8: Placement activities for the AY 2021 – 22

Dr. Vinay S, Training & Placement officer presented the Placement statistics report for the academic year 2021-22 to the members and the members appreciated the efforts taken by the placement cell.

ITEM – 9(a): PESCE Faculty Members who have obtained Ph.D.

On behalf of Dean (Research), the Dean (Academic) office presented the list of faculty who have obtained their Ph.D. in last year and the Hon'ble academic council members congratulated the faculty for their achievement. Prof. M A VijayaKumar suggested to

29/11/22

encourage the faculties to do their research in high repute institutions like IIT's / IISc. / NITK's.

ITEM – 9(b): Sponsored Research Projects

On behalf of Dean (Research), the Dean (Academic) office presented the ongoing projects of PESCE. The members congratulated Principal and PESCE management for their continuous encouragement to faculty in getting the funds from various Public and Government agencies.

ITEM – 9(c): Research Publications

On behalf of Dean (Research), the Dean (Academic) presented the list of Research Publications of the faculty during the last year. He also briefed about the citations in the web of science and Scopus for all the publications. But, members expressed their concern for the downfall of publications during last 3 years.

ITEM – 9(d): Patents applied during AY 2021 - 22

On behalf of Dean (Research), the Dean (Academic) briefed about the patents applied during the AY 2020 – 21. The Members appreciated the effort put by the PESCE team for improving the patents at the institute.

ITEM – 9(e): Centre's of Excellence established at PESCE

On behalf of Dean (Research), the Dean (Academic) office briefed about the center of excellence established at PESCE. He highlighted the research activities which the center was engaged in. Further, he also highlighted that the center would promote more interdisciplinary research activities. Members appreciated the effort put by the Management of PESCE toward improving Centre of Excellence at the institute.

ITEM – 10: Industry Institute Interaction

On behalf of Dean (III) the Dean – Academic office briefed about the activities of Dean (III) during the AY 2021 – 22. In this connection, the Hon'ble members expressed their concern about the active Memorandums of Understanding (MoU) for the AY 2021–22 and suggested that the MoUs with industry should be improved so that the institute could bridge the gap between academia and industry.

29/11/22

ITEM – 11: Institution's Innovation Council (IIC)

Prof. Siddesh Kumar N M, Coordinator for IIC - highlighted the activities conducted by the institution's Innovation Council for the faculty and the students. The members praised the institution's Innovation Council and suggested to taking the innovation to the next level, where students and the institute will benefit more.

ITEM – 12: AICTE Activity Points Program

On behalf of Dr. Mahesh Kumar K M, Coordinator for AICTE Activity Points Program, the Dean – Academic Office highlighted the activities conducted by the institution towards the fulfilment of AICTE Activity Points for the award of a BE degree. The members were pleased with the method, and also the memorandum of understanding with Youth for Seva for the conduction of AICTE activity points.

ITEM – 13: New initiatives at the Institute

The members appreciated the effort of PES College of Engineering, Mandya, in starting **B.E. -Computer Science & Engineering (Artificial Intelligence & Machine Learning)** with an intake of 60 and also to increase **B.E. - Computer Science & Engineering** intake from 120 to 180 from the academic year 2022–23.

Further, due to global reduction of intake in Mechanical Engineering Science, the institute reduces the B.E. - Mechanical Engineering intake from 180 to 120 students.

ITEM – 14: Extra – Curricular & Sports achievements for the AY 2021 – 22

The extracurricular activities and sports achievements of the PESCE students were presented to the council members and the same was appreciated for their outstanding performance at all levels.

ITEM – 15: Program Specific Outcomes (PSO) of Computer Science & Engineering and Information Science & Engineering

The Members reviewed and made valuable suggestion for redefining PSOs of Computer Science & Engineering, Mechanical Engineering and Information Science & Engineering and the same was **approved** in the Academic Council.

–Approved–

29/11/22

Views of External Members:

Dr. Vasudev T

1. He appreciated that the documentation report of the academic council was well framed.
2. He appreciated the best practices adopted by the institution and also the consistency maintained in the NIRF ranking over the past four years.
3. He insisted on NBA accreditation for the MBA and MCA programmes.
4. He insisted on including a statistic about students going for higher education and competitive exams in the ACM documentation report.

Dr. M V Vijaykumar

1. Appreciated that the documentation report of the academic council was well framed.
2. Appreciated the 137th ranking in 2021 and also the consistency maintained in the NIRF ranking over the past four years.
3. Insisted to enhance B.E. – Information Science & Engineering intake from 60 to 120 during AY 2023-24 after getting NBA accreditation.
4. Insisted on starting a new emerging program like Data Science during AY 2023-24.

Dr. B Uma

1. Congratulated the entire PESCE team on maintaining its NIRF rank consistency for the fourth year in a row.
2. Appreciated the Mechanical Engineering placements.
3. Appreciated the activities carried out by Institution's Innovation Council and also the students participation in and winning Smart India Hackathon events.
4. Insisted on encouraging the faculty to enrol in NPTEL course registration.
5. Advised using senior students as teaching assistants for junior students.
6. Provided the feedback to cultivate teamwork and managerial skills in the students.

29/11/22

P.E.S COLLEGE OF ENGINEERING, MANDYA – 571 401

(An Autonomous Institution Affiliated to VTU, Belagavi)

Dr. M K Ravishankar

1. Appreciated the utilization of online learning platform (KIMO) and insisted to use the Open-Source Moodle learning platform.
2. Insisted to utilize the academic autonomy in maintaining the Examination Reforms.
3. Insisted to promote B.E. – Minors program.
4. Insisted to start new certification courses in the institution.

No other subjects came for discussion and meeting was concluded with Vote of thanks by Dr. N L Murali Krishna, Controller of Examination.

28/11/2

Dr. R Girisha
Dean – Academic

Dr. R Girisha
Dean (Academic)
P.E.S.C.E., Mandya.

28/11/2022

Dr. R M Mahalinge Gowda
Principal

PRINCIPAL
PES College of Engineering
Mandya - 571 401

Copy to:

1. All Head of Departments
2. All the members of the Committee

ITEM – 3	Review of suggestions by the Academic Council Members – 15th Academic Council Meeting

Sl. No.	Suggestion / Issues raised by Academic Council Members	Action Taken / Action Plan
1.	Hon'ble members in reference to 137th rank in NIRF (2022) – Engineering category, expressed their view to maintain the consistency.	PES College of Engineering (PESCE), Mandya, has secured Rank in a band 151 - 200 at National-level in Ministry of Education's National Institutional Ranking Framework (NIRF)-2023 among Engineering institutions as announced by Minister for Education. The College had secured 137th Rank in NIRF-2022, 139th Rank in NIRF-2021, 147th Rank in NIRF-2020, 161st in NIRF-2019 and maintained the consistency from the past 5 years.
2.	Hon'ble members suggested to focus more on Innovative Innovation Cell (IIC) to promote the innovative ideas from the students / faculty to solve the socially responsible problems.	PESCE with the setup of IIC is focusing more towards the activities of Startup and innovation skills as a result the institute stands in the rank band of 11-50 at NIRF Innovation ranking 2023. In turn, guided the students to participate in AICTE & other Hackathon events.
3.	Hon'ble members expressed their views to focus more on employability / entrepreneurship / skill development courses in the curriculum.	PESCE has started the additional Skill Development Courses with the approval from the University for the students admitted after AY 2021-22. Further, it has been directed to all BoS to review the syllabus periodically for employability quotient in consonance with syllabus review.
4.	Hon'ble members expressed their views towards MBA and MCA programmes NBA accreditation.	As per the suggestion from the Hon'ble members, MBA and MCA programmes were applied for NBA accreditation. The NBA visit for MBA programme was successfully done in August 2023, but the NBA team insisted to withdraw the MCA application, suggesting the NBA portal is not compatible with the 2 & 3 year MCA program.
5.	Hon'ble members expressed that PESCE must start a new program in emerging technologies.	As per the suggestion from the Hon'ble members, PESCE has started TWO new programs Computer Science & Engineering (Data Science) and Computer Science & Business Systems from the AY 2023-24.
6.	Hon'ble members expressed their views to promote students taking B.E. – Minor Program.	PESCE was promoting students to take B.E. – Minor programs with an additional 18 credits. Now, for the AY 2023-24 the university has relaxed the cutoff CGPA from 8.5 to 7.5. This in addition allowing more students to enrol for B.E. – Minor program.

ITEM – 4 | Academic Calendar for the AY 2023 – 24

Tentative Academic Calendar for the Academic year 2023 – 24(Odd Semester) is hereby scheduled as follows.

	BE – I & VII Semester	BE – III & V Semester	M.Tech., MCA & MBA – III Semester
Commencement of ODD Semester	19th Oct. 2023	2nd Nov. 2023	25th Oct. 2023
CIE – I	6th - 8th Nov. 2023	28th – 30th Nov. 2023	11th – 13th Dec. 2023
CIE - II	26th - 28th Dec. 2023	19th - 20th Feb. 2024	1st – 3rd Feb. 2024
Makeup test	1st – 3rd Jan. 2023	26th - 28th Feb. 2024	8th – 10th Feb. 2024
Last Teaching Day of ODD Semester	6th Jan. 2024	2nd Mar. 2024	14th Feb. 2024
Practical examination	8th – 13th Jan. 2024	4th – 9th Mar. 2024	20th Feb. – 6th Mar. 2024
Theory Examination	15th – 24th Jan, 2024	11th – 27th Mar. 2023	7th – 13th Mar. 2024
Commencement of EVEN Semester	29th Jan, 2024	1st April, 2024	18th March, 2024

ITEM-5 | Academics

5 (a) | Scheme for BE Programme [P22 Scheme]

B.E. I – Semester [Physics Group] – Civil Engineering Stream (CES)

Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week L	T	P	SDA	Credits	Examination Marks CIE	SEE	Total
1	**ASC** P22MACE101	Calculus, Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22PHCE102	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
3	**ESC** P22ESCE103	Engineering Mechanics (IC)	CE	2	2	-	-	3	50	50	100
4	**ESC** P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KBK107	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO107	Indian Constitution									
8	**AEC/SDC** P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH108	Scientific Foundation for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions
Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.	
AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.	
#-P22PHCE102 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0). All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.	

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I					
Code	**Title**	**L**	**T**	**P**	
P22PLC1051	Introduction to Web Programming	2	0	2	• ***The student has to select one course from the ESC-I group.***
P22PLC1052	Introduction to Python Programming	2	0	2	• ***Civil and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC1041-Introduction to Civil Engineering***
P22PLC1053	Basics of JAVA programming	2	0	2	• ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
P22PLC1054	Introduction to C++ Programming	2	0	2	• ***The students must select one course from either ETC-I or PLC-I group.*** • ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. II – Semester [Chemistry Group] – Civil Engineering Stream (CES)

Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MACE201	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22CHCE202	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
3	**ESC** P22CED203	Computer – Aided Engineering Drawing	AU / IP /ME	2	-	2	-	3	50	50	100
4	**ESC** P22ESC204X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC205X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC205X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG206	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
7	P22KSK207 / P22KBK207	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO207	Indian Constitution									
8	**AEC/SDC** P22IDT208	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH208	Scientific Foundation for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22CHCE202 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC2051	Introduction to Web Programming	2	0	2
P22PLC2052	Introduction to Python Programming	2	0	2
P22PLC2053	Basics of JAVA programming	2	0	2
P22PLC2054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***Civil and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC2041-Introduction to Civil Engineering***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. I – Semester [Chemistry Group] – Civil Engineering Stream (CES)											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MACE101	Calculus, Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22CHCE102	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
3	**ESC** P22CED103	Computer – Aided Engineering Drawing	ME / IP / AU	2	-	2	-	3	50	50	100
4	**ESC** P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KBK107	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO107	Indian Constitution									
8	**AEC/SDC** P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH108	Scientific Foundation for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity

Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22CHCE102 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC1051	Introduction to Web Programming	2	0	2
P22PLC1052	Introduction to Python Programming	2	0	2
P22PLC1053	Basics of JAVA programming	2	0	2
P22PLC1054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***Civil and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC1041-Introduction to Civil Engineering***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. II – Semester [Physics Group] – Civil Engineering Stream (CES)											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MACE201	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22PHCE202	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
3	**ESC** P22ESCE203	Engineering Mechanics (IC)	CE	2	-	2	-	3	50	50	100
4	**ESC** P22ESC204X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC205X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC205X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG206	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
7	P22KSK207 / P22KBK207	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO207	Indian Constitution									
8	**AEC/SDC** P22IDT208	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH208	Scientific Foundation for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the

prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22PHCE202 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC2051	Introduction to Web Programming	2	0	2
P22PLC2052	Introduction to Python Programming	2	0	2
P22PLC2053	Basics of JAVA programming	2	0	2
P22PLC2054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
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- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. I – Semester [Physics Group] – Computer Science & Engineering Stream (CSE)											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MACS101	Calculus, Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22PHCS102	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
3	**ESC** P22ESCS103	Principles of Programming Using C (IC)	CS / IS / AIML	2	-	2	-	3	50	50	100
4	**ESC** P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KBK107	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO107	Indian Constitution									
8	**AEC/SDC** P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH108	Scientific Foundation for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the

prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22PHCS102 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC1051	Introduction to Web Programming	2	0	2
P22PLC1052	Introduction to Python Programming	2	0	2
P22PLC1053	Basics of JAVA programming	2	0	2
P22PLC1054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***CSE/ISE and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC1045-Introduction to C Programming***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. II – Semester [Chemistry Group] – Computer Science & Engineering Stream (CSE)											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MACS201	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22CHCS202	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
3	**ESC** P22CED203	Computer – Aided Engineering Drawing	ME / IP / AU	2	-	2	-	3	50	50	100
4	**ESC** P22ESC204X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC205X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC205X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG206	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
7	P22KSK207 / P22KBK207	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO207	Indian Constitution									
8	**AEC/SDC** P22IDT208	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH208	Scientific Foundation for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

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AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the

prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22CHCS202 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC2051	Introduction to Web Programming	2	0	2
P22PLC2052	Introduction to Python Programming	2	0	2
P22PLC2053	Basics of JAVA programming	2	0	2
P22PLC2054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***CSE/ISE and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC2045-Introduction to C Programming***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. I – Semester [Chemistry Group] – Computer Science & Engineering Stream (CSE)											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MACS101	Calculus, Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22CHCS102	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
3	**ESC** P22CED103	Computer – Aided Engineering Drawing	ME / IP / AU	2	-	2	-	3	50	50	100
4	**ESC** P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KBK107	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO107	Indian Constitution									
8	**AEC/SDC** P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH108	Scientific Foundation for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the

prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22CHCS102 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC1051	Introduction to Web Programming	2	0	2
P22PLC1052	Introduction to Python Programming	2	0	2
P22PLC1053	Basics of JAVA programming	2	0	2
P22PLC1054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***CSE/ISE and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC1045-Introduction to C Programming***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. II – Semester [Physics Group] – Computer Science & Engineering Stream (CSE)											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MACS201	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22PHCS202	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
3	**ESC** P22ESCS203	Principles of Programming Using C (IC)	CS / IS / AIML	2	-	2	-	3	50	50	100
4	**ESC** P22ESC204X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC205X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC205X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG206	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
7	P22KSK207 / P22KBK207	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO207	Indian Constitution									
8	**AEC/SDC** P22IDT208	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH208	Scientific Foundation for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the

prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22PHCS202 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC2051	Introduction to Web Programming	2	0	2
P22PLC2052	Introduction to Python Programming	2	0	2
P22PLC2053	Basics of JAVA programming	2	0	2
P22PLC2054	Introduction to C++ Programming	2	0	2

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- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
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- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. I – Semester [Chemistry Group] – Electrical & Electronics Engineering Stream (EEE)											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MAEE101	Calculus, Ordinary Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22CHEE102	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
3	**ESC** P22CED103	Computer – Aided Engineering Drawing	ME / IP / AU	2	-	2	-	3	50	50	100
4	**ESC** P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KBK107	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO107	Indian Constitution									
8	**AEC/SDC** P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH108	Scientific Foundations for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the

prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22CHEE102 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC1051	Introduction to Web Programming	2	0	2
P22PLC1052	Introduction to Python Programming	2	0	2
P22PLC1053	Basics of JAVA programming	2	0	2
P22PLC1054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***EEE Students shall opt for any one of the courses from the ESC-I group except, P22ESC1042- Introduction to Electrical Engineering and ECE students shall opt any one of the courses from ESC-I except P22ESC1043 Introduction to Electronics Engineering***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. II – Semester [Physics Group] – Electrical & Electronics Engineering Stream (EEE)											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MAEE201	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22PHEE202	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
3	**ESC** P22EEE203 Or P22BEE203	Elements of Electrical Engineering **OR** Basic Electronics	EE / EC	2	2	-	-	3	50	50	100
4	**ESC** P22ESC204X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC205X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC205X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG206	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
7	P22KSK207 / P22KBK207	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO207	Indian Constitution									
8	**AEC/SDC** P22IDT208	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH208	Scientific Foundations for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

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AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-

credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22PHEE102 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC2051	Introduction to Web Programming	2	0	2
P22PLC2052	Introduction to Python Programming	2	0	2
P22PLC2053	Basics of JAVA programming	2	0	2
P22PLC2054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***EEE Students shall opt for any one of the courses from the ESC-I group except, P22ESC2042- Introduction to Electrical Engineering and ECE students shall opt any one of the courses from ESC-I except P22ESC2043 Introduction to Electronics Engineering***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. I – Semester [Physics Group] – Electrical & Electronics Engineering Stream (EEE)											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MAEE101	Calculus, Ordinary Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22PHEE102	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
3	**ESC** P22EEE103 Or P22BEE103	Elements of Electrical Engineering **OR** Basic Electronics	EE / EC	2	2	-	-	3	50	50	100
4	**ESC** P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KBK107	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO107	Indian Constitution									
8	**AEC/SDC** P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH108	Scientific Foundations for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the

prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22PHEE102 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC1051	Introduction to Web Programming	2	0	2
P22PLC1052	Introduction to Python Programming	2	0	2
P22PLC1053	Basics of JAVA programming	2	0	2
P22PLC1054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***EEE Students shall opt for any one of the courses from the ESC-I group except, P22ESC1042- Introduction to Electrical Engineering and ECE students shall opt any one of the courses from ESC-I except P22ESC1043 Introduction to Electronics Engineering***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. II – Semester [Chemistry Group] – Electrical & Electronics Engineering Stream (EEE)											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MAEE201	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22CHEE202	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
3	**ESC** P22CED203	Computer – Aided Engineering Drawing	ME / IP / AU	2	-	2	-	3	50	50	100
4	**ESC** P22ESC204X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC205X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC205X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG206	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
7	P22KSK207 / P22KBK207	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO207	Indian Constitution									
8	**AEC/SDC** P22IDT208	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH208	Scientific Foundations for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the

prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22CHEE202 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC2051	Introduction to Web Programming	2	0	2
P22PLC2052	Introduction to Python Programming	2	0	2
P22PLC2053	Basics of JAVA programming	2	0	2
P22PLC2054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***EEE Students shall opt for any one of the courses from the ESC-I group except, P22ESC2042- Introduction to Electrical Engineering and ECE students shall opt any one of the courses from ESC-I except P22ESC2043 Introduction to Electronics Engineering***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. I – Semester [Physics Group] – Mechanical Engineering Stream											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MAME101	Calculus, Ordinary Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22PHME102	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
3	**ESC** P22ESME103	Elements of Mechanical Engineering	AU/IP/ME	2	2	0	-	3	50	50	100
4	**ESC** P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KBK107	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO107	Indian Constitution									
8	**AEC/SDC** P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH108	Scientific Foundations for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the

prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22PHME102 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC1051	Introduction to Web Programming	2	0	2
P22PLC1052	Introduction to Python Programming	2	0	2
P22PLC1053	Basics of JAVA programming	2	0	2
P22PLC1054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***AU/IP/ME Students shall opt for any one of the courses from the ESC-I group except, P22ESC1044-Introduction to Mechanical Engineering***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. II – Semester [Chemistry Group] – Mechanical Engineering Stream (MES)											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MAME201	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22CHME202	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
3	**ESC** P22CED203	Computer Aided Engineering Drawing	AU / IP / ME	2	-	2	-	3	50	50	100
4	**ESC** P22ESC204X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC205X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC205X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG206	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
7	P22KSK207 / P22KBK207	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO207	Indian Constitution									
8	**AEC/SDC** P22IDT208	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH208	Scientific Foundations for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the

prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22CHME202 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC2051	Introduction to Web Programming	2	0	2
P22PLC2052	Introduction to Python Programming	2	0	2
P22PLC2053	Basics of JAVA programming	2	0	2
P22PLC2054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***AU/IP/ME Students shall opt for any one of the courses from the ESC-I group except, P22ESC2044-Introduction to Mechanical Engineering***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. I – Semester [Chemistry Group] – Mechanical Engineering Stream (MES)											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MAME101	Calculus, Ordinary Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22CHME102	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
3	**ESC** P22CED103	Computer Aided Engineering Drawing	AU / IP / ME	2	-	2	-	3	50	50	100
4	**ESC** P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KBK107	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO107	Indian Constitution									
8	**AEC/SDC** P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH108	Scientific Foundations for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the

prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22CHME102 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC1051	Introduction to Web Programming	2	0	2
P22PLC1052	Introduction to Python Programming	2	0	2
P22PLC1053	Basics of JAVA programming	2	0	2
P22PLC1054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***AU/IP/ME Students shall opt for any one of the courses from the ESC-I group except, P22ESC1044-Introduction to Mechanical Engineering***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

B.E. II – Semester [Physics Group] – Mechanical Engineering Stream											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	**ASC** P22MAME201	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
2	**#ASC** P22PHME202	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
3	**ESC** P22ESME203	Elements of Mechanical Engineering	AU/IP/ME	2	2	0	-	3	50	50	100
4	**ESC** P22ESC204X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	**ETC** P22ETC205X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC205X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	**AEC** P22ENG206	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
7	P22KSK207 / P22KBK207	Samskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO207	Indian Constitution									
8	**AEC/SDC** P22IDT208	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH208	Scientific Foundations for Health									
Total								**20**	**400**	**400**	**800**

SDA - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

Credit Definition: 1-hour Lecture (**L**) per week=**1Credit** 2-hoursTutorial(**T**) per week=**1Credit** 2-hours Practical / Drawing (**P**) per week=**1Credit** 2-hous Skill Development Actives (**SDA**) per week = **1 Credit**	04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXUREI of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the

prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22PHME202 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

(ESC-I) Engineering Science Courses-I					**(ETC-I) Emerging Technology Courses-I**				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
					Note: ETC list shall be defined by the concerned department				

(PLC-I) Programming Language Courses-I				
Code	**Title**	**L**	**T**	**P**
P22PLC2051	Introduction to Web Programming	2	0	2
P22PLC2052	Introduction to Python Programming	2	0	2
P22PLC2053	Basics of JAVA programming	2	0	2
P22PLC2054	Introduction to C++ Programming	2	0	2

- ***The student has to select one course from the ESC-I group.***
- ***AU/IP/ME Students shall opt for any one of the courses from the ESC-I group except, P22ESC2044-Introduction to Mechanical Engineering***
- ***The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester***
- ***The students must select one course from either ETC-I or PLC-I group.***
- ***If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa***

Bachelor of Engineering (III –Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week			Credits	Examination Marks		
				L	T	P		CIE	SEE	Total
1	P22MA301	Engineering Mathematics – III	MA	2	2	-	3	50	50	100
2	P22XX302	Professional Core Course	XX	3	-	-	3	50	50	100
3	P22XX303	Professional Core Course	XX	3	-	-	3	50	50	100
4	P22XX304	Professional Core Course (Integrated)	XX	3	-	2	4	50	50	100
5	P22XX305	Professional Core Course (Integrated)	XX	3	-	2	4	50	50	100
6	P22XXL306	Professional Core Course Laboratory	XX	-	-	2	1	50	50	100
7	P22HSMC307	Employability Enhancement Skills - III	HSMC	-	2	-	1	50	50	100
8	P22BFE308	Biology For Engineers	XX	2	-	-	2	50	50	100
9	P22NSS308	National Service Scheme (NSS)	NSS coordinator	-	-	2	0	100	-	100
	P22PED308	Physical Education (PE) (Sports and Athletics)	PED							
	P22YOG308	Yoga	YOGA							
Total							**21**			

9	P22MDIP301	Additional Mathematics – I	MA	2	2	-	0	100	-	100
10	P22HDIP307	Additional Employability Enhancement Skills - I	HSMC	-	2	-	0	100	-	100

Bachelor of Engineering (IV –Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week			Credits	Examination Marks		
				L	T	P		CIE	SEE	Total
1	P22MA401	Engineering Mathematics – IV	MA	2	2	-	3	50	50	100
2	P22XX402	Professional Core Course	XX	3	-	-	3	50	50	100
3	P22XX403	Professional Core Course	XX	3	-	-	3	50	50	100
4	P22XX404	Professional Core Course (Integrated)	XX	3	-	2	4	50	50	100
5	P22XX405	Professional Core Course (Integrated)	XX	3	-	2	4	50	50	100
6	P22XXL406	Professional Core Course Laboratory	XX	-	-	2	1	50	50	100
7	P22HSMC407	Employability Enhancement Skills - IV	HSMC	-	2	-	1	50	50	100
8.	P22INT408	Internship – I	XX	-	-	-	2	-	100	100
9.	P22NSS409	National Service Scheme (NSS)	NSS coordinator	-	-	2	0	100	-	100
	P22PED409	Physical Education (PE) (Sports and Athletics)	PED							
	P22YOG409	Yoga	YOGA							
Total							**21**			

10	P22MDIP401	Additional Mathematics – II	MA	2	2	-	0	100	-	100
11	P22HDIP407	Additional Employability Enhancement Skills – II	HSMC	-	2	-	0	100	-	100

***Allot Tutorial as per the course requirement subjected to the credits allotted.**

	Bachelor of Engineering (V –Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P22XX501	Management Course as per the requirement of the concerned programme.	XX	3	-	-	-	3	50	50	100
2	P22XX502	Professional Core Course	XX	3	-	-	-	3	50	50	100
3	P22XX503X	Professional Elective Course - I	XX	3	-	-	-	3	50	50	100
4	P22XX504	Professional Core Course (Integrated)	XX	3	-	2	-	4	50	50	100
5	P22XXO505X	Open Elective – I	XX	3	-	-	-	3	50	50	100
6	P22XXL506	Professional Core Course Laboratory	XX	-	-	2	-	1	50	50	100
7	P22INT507	Internship - II	XX	-	-	-	-	2	-	100	100
8	P22HSMC508	Employability Enhancement Skills – V	HSMC	1	-	-	-	1	50	50	100
9.	P22UHV509	Social Connect and Responsibility	XX	1	-	-	-	1	50	50	100
10.	P22NSS510	National Service Scheme (NSS)	NSS coordinator	-	-	2	0	100	-	100	-
	P22PED510	Physical Education (PE) (Sports and Athletics)	PED								
	P22YOG510	Yoga	YOGA								
	Total							21			

Professional Elective Course – I (P21XX503X)	
Course Code	Course Title
P22XX5031	
P22XX5032	
P22XX5033	
P22XX5034	

Open Elective – I(P21XXO505X)	
Course Code	Course Title
P22XXO5051	
P22XXO5052	
P22XXO5053	
P22XXO5054	

	Bachelor of Engineering (VI –Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P22XX601	Professional Core Course	XX	3	-	-	-	3	50	50	100
2	P22XX602X	Professional Elective Course – II	XX	3	-	-	-	3	50	50	100
3	P22XX603X	Professional Elective Course - III	XX	3	-	-	-	3	50	50	100
4	P22XX604	Professional Core Course (Integrated)	XX	3	-	2	-	4	50	50	100
5	P22XXO605X	Open Elective – II	XX	3	-	-	-	3	50	50	100
6	P22XXL606	Professional Core Course Laboratory	XX	-	-	2	-	1	50	50	100
7	P22XXMP607	Mini – Project	XX	-	-	2	2	2	50	50	100
8	P22HSMC608	Employability Enhancement Skills - VI	HSMC	1	-	-	-	1	50	50	100
9.	P22UHV609	Universal Human Values and Professional Ethics	XX	1	-	-	-	1	50	50	100
10.	P22NSS610	National Service Scheme (NSS)	NSS coordinator	-	-	2	0	100	-	100	-
	P22PED610	Physical Education (PE) (Sports and Athletics)	PED								
	P22YOG610	Yoga	YOGA								
	Total							21			

Professional Elective Course – II (P21XX602X)	
Course Code	Course Title
P22XX6021	
P22XX6022	
P22XX6023	
P22XX6024	

Professional Elective Course – III (P21XX603X)	
Course Code	Course Title
P22XX6031	
P22XX6032	
P22XX6033	
P22XX6034	

Open Elective – II (P21XXO605X)	
Course Code	Course Title
P22XXO6051	
P22XXO6052	
P22XXO6053	
P22XXO6054	

***Allot Tutorial as per the course requirement subjected to the credits allotted.**

L –Lecture, T – Tutorial, P- Practical/ Drawing, CIE: Continuous Internal Evaluation, SEE: Semester End Examination

Bachelor of Engineering (VII –Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week			Credits	Examination Marks		
				L	T	P		CIE	SEE	Total
1	P22XX701	Professional Core Course	XX	3	-	-	3	50	50	100
2	P22XX702X	Professional Elective Course – IV	XX	3	-	-	3	50	50	100
3	P22XX703X	Professional Elective Course - V	XX	3	-	-	3	50	50	100
4	P22XX704	Professional Core Course (Integrated)	XX	3	-	2	4	50	50	100
5	P22XX705	Research Methodology, Report Writing and IPR	XX	3	-	-	3	50	50	100
6.	P22XX706	Project Work Phase – I	XX	-	-	-	4	100	-	100
Total							20			

Professional Elective Course – IV (P21XX702X)	
Course Code	Course Title
P22XX7021	
P22XX7022	
P22XX7023	
P22XX7024	

Professional Elective Course – V (P21XX703X)	
Course Code	Course Title
P22XX7031	
P22XX7032	
P22XX7033	
P22XX7034	

Bachelor of Engineering (VIII –Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week			Credits	Examination Marks		
				L	T	P		CIE	SEE	Total
1	P22XX801	Self-Study Course	XX	-	-	-	2	100	-	100
2	P22INT802	Research / Industry Internship – III	XX	-	-	-	6	-	100	100
3	P22XX803	Project Work Phase – II	XX	-	-	-	8	100	100	100
Total							16			

***Allot Tutorial as per the course requirement subjected to the credits allotted.**

DEPARTMENT WISE P21 SCHEME FOR BE – V & VI SEMESTER

Bachelor of Engineering – Automobile Engineering (V –Semester)											
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21AU501	Industrial Management and Entrepreneurship	AU	3	-	-	-	3	50	50	100
2	P21AU502	Design of Machine Elements	AU	2	2	-	-	3	50	50	100
3	P21AU503X	**Professional Elective Course – I**	AU	3	-	-	-	3	50	50	100
4	P21AU504	Automotive Engines and Components [Integrated]	AU	3	-	2	-	4	50	50	100
5	P21AUO505X	**Open Elective – I**	AU	3	-	-	-	3	50	50	100
6	P21AUL506	Skill oriented Laboratory-I (Simulation Laboratory)	AU	-	-	2	-	1	50	50	100
7	P21INT507	Internship - II	AU	-	-	-	-	2	-	100	100
8	P21HSMC508	Employability Enhancement Skills – V	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV509	Social Connect and Responsibility	AU	1	-	-	-	1	50	50	100
	Total							**21**			

Professional Elective Course – I (P21XX503X)	
Course Code	**Course Title**
P21AU5031	Auxiliary system of automotive engines
P21AU5032	Advance Engine Technology
P21AU5033	Production of Automotive Components
P21AU5034	Non Traditional Machining

Open Elective – I(P21XXO505X)	
Course Code	**Course Title**
P21AUO5051	Automotive Engines and Systems

Bachelor of Engineering - Automobile Engineering (VI –Semester)											
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21AU601	Heat Transfer	AU	2	2	-	-	3	50	50	100
2	P21AU602X	**Professional Elective Course – II**	AU	3	-	-	-	3	50	50	100
3	P21AU603X	**Professional Elective Course – III**	AU	3	-	-	-	3	50	50	100
4	P21AU604	Automotive Chassis and Suspension [Integrated]	AU	3	-	2	-	4	50	50	100
5	P21AUO605X	**Open Elective – II**	AU	3	-	-	-	3	50	50	100
6	P21AUL606	Skill Oriented Laboratory	AU	-	-	2	-	1	50	50	100
7	P21AUMP607	Mini – Project	AU	-	-	2	2	2	50	50	100
8	P21HSMC608	Employability Enhancement Skills - VI	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV609	Universal Human Values and Professional Ethics	AU	1	-	-	-	1	50	50	100
	Total							**21**			

Professional Elective Course – II (P21XX602X)	
Course Code	**Course Title**
P21AU6021	Automotive Fuels and Combustion
P21AU6022	Total Quality Management
P21AU6023	Operation Research
P21AU6024	Two and Three Wheeled Vehicles

Professional Elective Course – III (P21XX603X)	
Course Code	**Course Title**
P21AU6031	Automotive Transmission
P21AU6032	Transport Management and Motor Vehicle Act
P21AU6033	Finite Element Method
P21AU6034	Battery Technology and Charging Infrastructure

Open Elective – II(P21XXO605X)	
Course Code	**Course Title**
P21AUO6051	Automotive Chassis and Transmission
P21AUO6052	Electric Vehicles, Battery Technology and Charging Infrastructure

Bachelor of Engineering – Civil Engineering (V –Semester)											
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21CV501	Construction Management and Entrepreneurship	Civil	3	-	-	-	3	50	50	100
2	P21CV502	Design of RC Structural Elements	Civil	3	-	-	-	3	50	50	100
3	P21CV503X	Professional Elective -I	Civil	3	-	-	-	3	50	50	100
4	P21CV504	Transportation Engineering (Integrated)	Civil	3	-	2	-	4	50	50	100
5	P21CVO505X	Open Elective- I	Civil	3	-	-	-	3	50	50	100
6	P21CVL506	Skill Laboratory	Civil	-	-	2	-	1	50	50	100
7	P21INT507	Internship – II / Extensive surveying	Civil	-	-	-	-	2	50	50	100
8	P21HSMC508	Employability Enhancement Skills – V	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV509	Social Connect and Responsibility	Civil	1	-	-	-	1	50	50	100
	Total							21			

List of Electives

Professional Elective - I			Open Elective- I		
Sl. No.	Course Code	Course Title	Sl. No.	Course Code	Course Title
1	P21CV5031	Matrix Method of Structural Analysis	1	P21CVO5051	Building Science and Engineering
2	P21CV5032	Railway, Airport and Harbour Engineering	2	P21CVO5052	Basic Transportation Engineering
3	P21CV5033	Alternative Building Materials and Masonry Structures	3	P21CVO5053	Geo-Environmental Engineering
4	P21CV5034	Solid Waste Management	4	P21CVO5054	Application of Remote Sensing and GIS in Water Resource Engineering

Bachelor of Engineering - Civil Engineering (VI –Semester)											
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	Pr		CIE	SEE	Total
1	P21CV601	Design of Steel Structure	Civil	3	-	-	-	3	50	50	100
2	P21CV602X	Professional Elective -II	Civil	3	-	-	-	3	50	50	100
3	P21CV603X	Professional Elective -III	Civil	3	-	-	-	3	50	50	100
4	P21CV604	Geo-Technical Engineering (Integrated)	Civil	3	-	2	-	4	50	50	100
5	P21CVO605X	Open Elective – II	Civil	3	-	-	-	3	50	50	100
6	P21CVL606	CAD Laboratory II	Civil	-	-	2	-	1	50	50	100
7	P21CVMP607	Mini – Project	Civil	-	-	2	2	2	50	50	100
8	P21HSMC608	Employability Enhancement Skills - VI	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV609	Universal Human Values and Professional Ethics	Civil	1	-	-	-	1	50	50	100
	Total							21			

List of Electives

Professional Elective -II			Professional Elective -III			Open Elective – II		
Sl. No.	Course Code	Course Title	Sl. No.	Course Code	Course Title	Sl. No.	Course Code	Course Title
1	P21CV6021	Advance Design of RC structures	1	P21CV6031	Earthquake Resistant Design of structures	1	P21CVO6051	Building Services
2	P21CV6022	Pavement Materials and Construction	2	P21CV6032	Pavement analysis and Design	2	P21CVO6052	Highway Traffic and Safety Measures
3	P21CV6023	Reinforced Earth Structures	3	P21CV6033	Ground Improvement Techniques	3	P21CVO6053	Sustainability Concepts in Engineering
4	P21CV6024	Design of Hydraulic Structures and Ground Water Hydrology	4	P21CV6034	Occupational Health and Safety	4	P21CVO6054	Municipal Waste Management

	Bachelor of Engineering (V –Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21CS501	Software Engineering and Management	CS	3	-	-	-	3	50	50	100
2	P21CS502	Computer Networks	CS	3	-	-	-	3	50	50	100
3	P21CS503	Professional Core - 1 (Elective)	CS	3	-	-	-	3	50	50	100
4	P21CS504	Operating System (Integrated)	CS	3	-	2	-	4	50	50	100
5	P21CS505	Open Elective – I	CS	3	-	-	-	3	50	50	100
6	P21CSL506	Computer Networks Laboratory	CS	-	-	2	-	1	50	50	100
7	P21INT507	Internship - II	XX	-	-	-	-	2	50	50	100
8	P21HSMC508	Employability Enhancement Skills – V	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV509	Social Connect and Responsibility	CS	1	-	-	-	1	50	50	100
	Total							21			

Professional Elective Course – I (P21XX503X)	
Course Code	Course Title
P21CS5031	System Software and Compiler Design
P21CS5032	Computer graphics and visualization
P21CS5033	Cloud Computing Platform
P21CS5034	Artificial Intelligence

Open Elective – I(P21XXO505X)	
Course Code	Course Title
P21CSO5051	Fundamentals of Data Structures
P21CSO5052	Introduction to Python Programming
P21CSO5053	Fundamentals of AI
P21CSO5054	Data Base Management System

	Bachelor of Engineering (VI –Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21CS601	Data Analytics	CS	3	-	-	-	3	50	50	100
2	P21CS602	Professional Core Course (Elective) - II	CS	3	-	-	-	3	50	50	100
3	P21CS603	Professional Core Course (Elective) - III	CS	3	-	-	-	3	50	50	100
4	P21CS604	Computer Architecture (Integrated)	CS	3	-	2	-	4	50	50	100
5	P21CS605	Open Elective – II	CS	3	-	-	-	3	50	50	100
6	P21CSL606	Data Analytics Lab	CS	-	-	2	-	1	50	50	100
7	P21CSMP607	Mini – Project	CS	-	-	2	2	2	50	50	100
8	P21HSMC608	Employability Enhancement Skills - VI	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV609	Universal Human Values and Professional Ethics	CS	1	-	-	-	1	50	50	100
	Total							21			

Professional Elective Course – II(P21XX602X)	
Course Code	Course Title
P21CS6021	Fundamentals of Block chain
P21CS6022	Network Management
P21CS6023	Service Oriented Architecture
P21CS6024	Software Testing

Professional Elective Course – III(P21XX603X)	
Course Code	Course Title
P21CS6031	Soft Computing
P21CS6032	Fundamentals of Devop's
P21CS6033	UNIX System programming
P21CS6034	Pervasive Computing

Open Elective-II (P21XXO605X)	
Course Code	Course Title
P21CSO6051	Introduction to WEB Programming
P21CSO6052	Design and Analysis of Algorithms
P21CSO6053	Fundamentals of Data Mining
P21CSO6054	Fundamentals of Machine Learning

	Bachelor of Engineering – Electronics & Communication Engineering (V –Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21 EC 501	Management Course as per the requirement of the concerned programme.	EC	3	-	-	-	3	50	50	100
2	P21 EC 502	Digital CMOS VLSI Design	EC	3	-	-	-	3	50	50	100
3	P21 EC 503X	Professional Elective Course - I	EC	3	-	-	-	3	50	50	100
4	P21 EC 504	Digital Signal Processing	EC	3	-	2	-	4	50	50	100
5	P21 ECO505X	Open Elective – I	EC	3	-	-	-	3	50	50	100
6	P21 EC L506	Circuit Simulation Laboratory	EC	-	-	2	-	1	50	50	100
7	P21INT507	Internship - II	EC	-	-	-	-	2	-	100	100
8	P21HSMC508	Employability Enhancement Skills – V	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV509	Social Connect and Responsibility	EC	1	-	-	-	1	50	50	100
	Total							21			

Professional Elective Course – I (P21EC503X)	
Course Code	Course Title
P21EC5031	Fundamentals of object oriented Language and Database Concepts
P21EC5032	System Verilog
P21EC5033	Control System
P21EC5034	ARM Processors

Open Elective – I(P21ECO505X)	
Course Code	Course Title
P21EC O5051	E-Waste Management
P21EC O5052	Principles of Communication Systems
P21EC O5053	Biometrics
P21EC O5054	Sensors and IOT

Bachelor of Engineering - Electronics & Communication Engineering (VI –Semester)											
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21EC601	Analog CMOS VLSI Design	EC	3	-	-	-	3	50	50	100
2	P21EC602X	Professional Elective Course – II	EC	3	-	-	-	3	50	50	100
3	P21EC603X	Professional Elective Course - III	EC	3	-	-	-	3	50	50	100
4	P21EC604	Microwave and Antenna	EC	3	-	2	-	4	50	50	100
5	P21ECO605X	Open Elective – II	EC	3	-	-	-	3	50	50	100
6	P21ECL606	VLSI Laboratory	EC	-	-	2	-	1	50	50	100
7	P21ECMP607	Mini – Project	EC	-	-	2	2	2	50	50	100
8	P21HSMC608	Employability Enhancement Skills - VI	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV609	Universal Human Values and Professional Ethics	XX	1	-	-	-	1	50	50	100
	Total							21			

Professional Elective Course – II (P21EC602X)	
Course Code	Course Title
P21EC6021	ITC and Multimedia Communications
P21EC6022	DSP Processor and Applications
P21EC6023	Embedded Systems
P21EC6024	Operating System

Professional Elective Course – III (P21EC603X)	
Course Code	Course Title
P21EC6031	Computer Organization
P21EC6032	Digital Image Processing
P21EC6033	Design for Testability
P21EC6034	Artificial Intelligence and Machine Learning using VLSI

Open Elective – II (P21ECO605X)	
Course Code	Course Title
P21ECO6051	Electronic Instrumentation
P21ECO6052	Introduction to Embedded Systems
P21ECO6053	Introduction to Image Processing
P21ECO6054	Automotive Electronics

Bachelor of Engineering – Electrical & Electronics Engineering (V–Semester)											
Sl. No.	Course Code	Course Title	Teaching Department	Hrs/Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21EE501	Management and Entrepreneurship	E&EE	3	-	-	-	3	50	50	100
2	P21EE502	Power System analysis and Stability	E&EE	3	-	-	-	3	50	50	100
3	P21EE503X	**Professional Elective Course-I**	E&EE	3	-	-	-	3	50	50	100
4	P21EE504	Power Electronics (Integrated)	E&EE	3	-	2	-	4	50	50	100
5	P21EE505X	**Open Elective–I**	E&EE	3	-	-	-	3	50	50	100
6	P21EEL506	Computer Aided Electrical Drawing Laboratory	E&EE	-	-	2	-	1	50	50	100
7	P21INT507	Internship–II	E&EE	-	-	-	-	2	50	50	100
8	P21HSMC508	Employability Enhancement Skills–V	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV509	Social Connect and Responsibility	E&EE	1	-	-	-	1	50	50	100
	Total							**21**			

Professional Elective Course – I (P21EE503X)	
Course Code	**Course Code**
P21EE5031	Utilization of Electrical Power
P21EE5032	Measurement & Instrumentation
P21EE5033	Special Electrical Machines
P21EE5034	Data communication and Networking

Open Elective – I (P21EEO505X)	
Course Code	**Course Code**
P21EEO5051	Power Plant Engineering
P21EEO5052	Renewable Energy Sources
P21EEO5053	Fuzzy Logic
P21EEO5054	Illumination Engineering

	Bachelor of Engineering - Electrical & Electronics Engineering (VI–Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs/Week				Credits	Examination Marks		
				L	T*	P	Pr		CIE	SEE	Total
1	P21EE601	Computer Techniques in Power Systems	E&EE	3	-	-	-	3	50	50	100
2	P21EE602X	**Professional Elective Course – II**	E&EE	3	-	-	-	3	50	50	100
3	P21EE603X	**Professional Elective Course – III**	E&EE	3	-	-	-	3	50	50	100
4	P21EE604	Control System (Integrated)	E&EE	3	-	2	-	4	50	50	100
5	P21EEO605X	**Open Elective–II**	E&EE	3	-	-	-	3	50	50	100
6	P21EEL606	Power System Simulation Laboratory	E&EE	-	-	2	-	1	50	50	100
7	P21EEMP607	Mini–Project	E&EE	-	-	2	2	2	50	50	100
8	P21HSMC608	Employability Enhancement Skills–VI	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV609	Universal Human Values and Professional Ethics	E&EE	1	-	-	-	1	50	50	100
	Total							**21**			

Professional Elective Course – II (P21EE602X)		Open Elective – II (P21EEO605X)		Professional Elective Course – III (P21EE603X)	
Course Code	**Course Code**	**Course Code**	**Course Code**	**Course Code**	**Course Code**
P21EE6021	PLC and SCADA	P21EEO6051	Utilization of Electrical Power	P21EE6031	Switchgear and Protection
P21EE6022	Embedded system & IOT	P21EEO6052	Hybrid Electrical Vehicles	P21EE6032	Renewable Energy Sources
P21EE6023	Electrical Machine Design	P21EEO6053	Energy auditing and DSM	P21EE6033	DSP Prosessor and Applications
P21EE6024	Power Quality	P21EEO6054	Testing & Commissioning of Electrical Equipment	P21EE6034	Flexible AC Transmission Systems

Bachelor of Engineering - Electrical & Electronics Engineering (V–Semester)											
Sl. No	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21IP501	Management and Entrepreneurship	IP	3	-	-	-	3	50	50	100
2	P21IP502	Professional Core Course- Design of Machine Elements	IP	3	-	-	-	3	50	50	100
3	P21IP503	Professional Core Course (Elective)- I	IP	3	-	-	-	3	50	50	100
4	P21IP504	Professional Core Course (Integrated)- Work Study and Ergonomics – IE Laboratory	IP	3	-	2	-	4	50	50	100
5	P21IP505	Open Elective – I	IP	3	-	-	-	3	50	50	100
6	P21IPL506	Professional Core Course Laboratory- Advanced Geometric Modelling Laboratory	IP	-	-	2	-	1	50	50	100
7	P21INT507	Internship – II	IP	-	-	-	-	2	50	50	100
8	P21HSMC508	Employability Enhancement Skills – V	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV509	Social Connect and Responsibility	IP	1	-	-	-	1	50	50	100
	Total							21			

Professional Core Course – Elective - I			Open Elective - I	
Sl.No	Course Code	Course title	Course Code	Course title
1	P21IP5031	Composite Materials	P21IP5051	Principles of Marketing
2	P21IP5032	Industrial Robotics	P21IP5052	Control Engineering and M/C Tool Drive
3	P21IP5033	Computer Integrated Manufacturing	P21IP5053	World Class Manufacturing
4	P21IP5034	Modern Machining Methods	P21IP5054	Plant Layout and Design

	Bachelor of Engineering Electrical & Electronics Engineering (VI–Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	Pr		CIE	SEE	Total
1	P21IP601	Professional Core Course- Quality Assurance and Reliability	IP	3	-	-	-	3	50	50	100
2	P21IP602	Professional Core Course (Elective)-II	IP	3	-	-	-	3	50	50	100
3	P21IP603	Professional Core Course (Elective)- III	IP	3	-	-	-	3	50	50	100
4	P21IP604	Professional Core Course (Integrated)- CAD/CAM - CNC Laboratory	IP	3	-	2	-	4	50	50	100
5	P21IP605	Open Elective – II	IP	3	-	-	-	3	50	50	100
6	P21IPL606	Professional Core Course Laboratory- Computer Aided Analysis Laboratory	IP	-	-	2	-	1	50	50	100
7	P21IPMP607	Mini – Project	IP	-	-	2	2	2	50	50	100
8	P21HSMC608	Employability Enhancement Skills - VI	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV609	Universal Human Values and Professional Ethics	IP	1	-	-	-	1	50	50	100
	Total							21			

Professional Core Course – Elective-II			Professional Core Course – Elective-III		Open Elective-II	
Sl. No	Course Code	Course title	Course Code	Course title	Course Code	Course title
1	P21IP6021	Operations Management	P21IP6031	Engineering Economics	P21IP6051	Just In Time Manufacturing
2	P21IP6022	Product Design and Manufacturing	P21IP6032	Cellular Manufacturing	P21IP6052	Flexible Manufacturing System
3	P21IP6023	Materials Management	P21IP6033	Nanotechnology	P21IP6053	Project Management
4	P21IP6024	Theory of Metal Forming	P21IP6034	Theory of Metal Cutting	P21IP6054	Production Planning & Control.

Bachelor of Engineering – Information Science & Engineering (V –Semester)											
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21IS501	Software Engineering and Project Management	IS	3	-	-	-	3	50	50	100
2	P21IS502	Computer Networks	IS	3	-	-	-	3	50	50	100
3	P21IS503X	Professional Elective Course - I	IS	3	-	-	-	3	50	50	100
4	P21IS504	Machine Learning (Integrated)	IS	3	-	2	-	4	50	50	100
5	P21ISO505X	Open Elective – I	IS	3	-	-	-	3	50	50	100
6	P21ISL506	Computer Networks Laboratory	IS	-	-	2	-	1	50	50	100
7	P21INT507	Internship - II	IS	-	-	-	-	2	-	100	100
8	P21HSMC508	Employability Enhancement Skills – V	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV509	Social Connect and Responsibility	IS	1	-	-	-	1	50	50	100
							Total	21			

Professional Elective Course – I (P21IS503X)	
Course Code	Course Title
P21IS5031	Advanced Java and J2EE
P21IS5032	Robotic Process Automation Design and Development
P21IS5033	Computer Graphics with Open GL
P21IS5034	Information Retrieval

Open Elective – I (P21ISO505X)	
Course Code	Course Title
P21ISO5051	Introduction to Java Programming
P21ISO5052	Web Technologies
P21ISO5053	Fundamentals of Data Structures and Algorithms
P21ISO5054	Fundaments of DBMS

Bachelor of Engineering – Information Science & Engineering (VI –Semester)											
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21IS601	Software Testing	IS	3	-	-	-	3	50	50	100
2	P21IS602X	Professional Elective Course – II	IS	3	-	-	-	3	50	50	100
3	P21IS603X	Professional Elective Course - III	IS	3	-	-	-	3	50	50	100
4	P21IS604	Cryptography and Network Security (Integrated)	IS	3	-	2	-	4	50	50	100
5	P21ISO605X	Open Elective – II	IS	3	-	-	-	3	50	50	100
6	P21ISL606	Software Testing Laboratory	IS	-	-	2	-	1	50	50	100
7	P21ISMP607	Mini – Project	IS	-	-	2	2	2	50	50	100
8	P21HSMC608	Employability Enhancement Skills - VI	HSMC	1	-	-	-	1	50	50	100
9.	P21UHV609	Universal Human Values and Professional Ethics	IS	1	-	-	-	1	50	50	100
	Total							21			

Professional Elective Course – II (P21IS602X)	
Course Code	Course Title
P21IS6021	Advanced Computer Networks
P21IS6022	Object Oriented Modeling and Design
P21IS6023	Storage Area Network
P21IS6024	Augmented and Virtual Reality

Professional Elective Course – III (P21IS603X)	
Course Code	Course Title
P21IS6031	Cloud Computing
P21IS6032	Unix and Shell Programming
P21IS6033	Block Chain Technology
P21IS6034	Introduction to Dot Net Framework for Application Development

Open Elective – II P21ISO605X	
Course Code	Course Title
P21ISO6051	Robotic Process Automation
P21ISO6052	Information System Management
P21ISO6053	Software Engineering
P21ISO6054	Operating System

	Bachelor of Engineering – Mechanical Engineering (V – Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21ME501	Management, Entrepreneurship and Professional Ethics	ME	3	-	-	-	3	50	50	100
2	P21ME502	Design of Machine Elements-I	ME	3	-	-	-	3	50	50	100
3	P21ME503X	Professional Elective Course - I	ME	3	-	-	-	3	50	50	100
4	P21ME504	Theory of Machine- I	ME	3	-	2	-	4	50	50	100
5	P21MEO505X	Open Elective – I	ME	3	-	-	-	3	50	50	100
6	P21MEL506	Energy Conversion Laboratory	ME	-	-	2	-	1	50	50	100
7	P21INT507	Internship - II	ME	-	-	-	-	2	-	100	100
8	P21HSMC508	Employability Enhancement Skills – V	HSMC	1	-	-	-	1	50	50	100
9	P21UHV509	Social Connect and Responsibility	ME	1	-	-	-	1	50	50	100
	Total							21			

Professional Elective Course–I (P21ME503X)		Open Elective–I (P21MEO505X)	
Course Code	Course Title	Course Code	Course Title
P21ME5031	Theory of Elasticity	P21MEO5051	Mechatronics and Microprocessor
P21ME5032	Non Traditional Machining	P21MEO5052	Robotics and Automation
P21ME5033	Aircraft and Rocket Propulsion	P21MEO5053	Experimental Stress Analysis
P21ME5034	Design of Experiments	P21MEO5054	Fundamentals of Thermal Sciences

	Bachelor of Engineering – Mechanical Engineering (VI –Semester)										
Sl. No.	Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T*	P	PJ		CIE	SEE	Total
1	P21ME601	Design of Machine Elements-II	ME	3	-	-	-	3	50	50	100
2	P21ME602X	Professional Elective Course–II	ME	3	-	-	-	3	50	50	100
3	P21ME603X	Professional Elective Course–III	ME	3	-	-	-	3	50	50	100
4	P21ME604	Heat and Mass Transfer	ME	3	-	2	-	4	50	50	100
5	P21MEO605X	Open Elective – II	ME	3	-	-	-	3	50	50	100
6	P21MEL606	Computer Aided Modeling and Analysis Laboratory	ME	-	-	2	-	1	50	50	100
7	P21MEMP607	Mini – Project	ME	-	-	2	2	2	50	50	100
8	P21HSMC608	Employability Enhancement Skills - VI	HSMC	1	-	-	-	1	50	50	100
9	P21UHV609	Universal Human Values and Professional Ethics	ME	1	-	-	-	1	50	50	100
	Total							21			

Professional Elective Course–II (P21ME602X)		Professional Elective Course–III (P21ME603X)		Open Elective – II (P21MEO605X)	
Course Code	Course Title	Course Code	Course Title	Course Code	Course Title
P21ME6021	Computer Integrated Manufacturing	P21ME6031	Advanced Engineering Materials	P21MEO6051	Alternate Fuels, Energy Conversion and Conservation
P21ME6022	Finite Element Methods	P21ME6032	Electric and Hybrid Vehicles	P21MEO6052	Introduction to Finite Element Methods
P21ME6023	Heating, Ventilation and Air Conditioning	P21ME6033	Control Engineering	P21MEO6053	Maintenance Engineering
P21ME6024	Materials Selection and Failure Analysis	P21ME6034	Production Management	P21MEO6054	Operations Research
		P21ME6035	Theory of Plasticity		

ITEM-5	Academics
5 (b)	Approval of Proceedings of the BOS meetings for the academic year 2023-24

The BOS meetings for the academic year 2023 – 24 are conducted by the respective departments on the following dates for framing the following syllabus.

Sl. No.	Department	UG	Date on which the BOS meeting was held
BE Syllabus for V & VI Semester (P21 Scheme)			
1.	Automobile Engineering	UG	01-07-2023
2.	Civil Engineering	UG	13-06-2023
3.	Computer Science and Engineering	UG	16-08-2023
4.	Electronics and Communication Engineering	UG	11-07-2023
5.	Electrical and Electronics Engineering	UG	08-07-2023
6.	Industrial Production and Engineering	UG	13-07-2023
7.	Information Science and Engineering	UG	20-08-2022
8.	Mechanical Engineering	UG	11-07-2023
9.	Mathematics	UG	20-07-2023
10.	Computer Science and Engineering [AI & ML] BE – III & IV Semester (P22 Scheme)	UG	21-10-2023

BoS proceeding of all departments are attached in ANNEXURE – I ***(Refer Page 108)***

ITEM-5	Academics
5 (c)	List of Open Electives for the Academic Year 2022-2023

P18 Scheme		
Sl. No.	**Offering Department**	**VI Semester** **Course Title & Code**
1	Mathematics	Linear Algebra & Analysis (P18MAO651)
2	Physics	Condensed Matter Physics (P18PHO652)
3	Automobile Engineering	Automotive Engines and Systems (P18AUO651)
4	Civil Engineering	Basic Transportation Engineering (P18CVO652)
		Earth Service & Natural Resources (P18CVO654)
5	Computer Science & Engineering	Database Management Systems (P18CSO652)
		Web Technologies (P18CSO653)
6	Electronics & Communication Engineering	Principles of Communication Systems (P18ECO652)
		Biometrics (P18ECO654)
7	Electrical & Electronics Engineering	Power Plant Engineering (P18EEO651)
8	Industrial & Production Engineering	Principles of Marketing (P18IPO651)
		World class Manufacturing (P18IPO653)
9	Information science & Engineering	Internet Programming (P18ISO652)
10	Mechanical Engineering	Non Destructive Testing (P18MEO652)
		Industrial Robotic & Automation (P18MEO653)

ITEM-5	Academics
5 (d)	Results & Graduation Day of AY 2021 - 22

For the academic year 2021-22, **862 (UG - 711 / PG - 151)** students are graduating from the institute. In order to commemorate the event, the college has planned to conduct its 13th Graduation Day on 07th January, 2023, in the college campus.

Sri. Prashanth Prakash, Founding Partner of Accel, India and also Chairman of Vision group for Startup – GoK will be presided has Honorable Chief Guest for 13th graduation day. He will be delivering the Graduation Day Address.

Sri. K S Vijay Ananad, President, People's Education Trust®, Mandya will preside and confer medals to the awardees.

Sri. S L Shiva Prasad, Secretary, People's Education Trust®, Mandya will grace the occasion and distribute provisional degree certificates to the graduates.

Dr. R M Mahalinge Gowda, Principal will welcome all the guests and administers the Oath to the graduates.

Dr. R Girisha, Dean (Academic Affairs) will present the list of Rank holders to the Chief Guests.

Dr. K J Mahendra Babu, Controller of Examinations will read out the list of degree conferred.

Gold Medals will be presented to all the **Eight UG** and **Seven PG** Toppers *(MCA TWO Batches i.e. 2 Years and 3 Years Program).*

BE – Automobile Engineering (Topper): AJEY THIMMAIAH K
BE – Civil Engineering (Topper): BI BI MISBA
BE – Computer Science & Engineering (Topper): SATHWIK M
BE – Electronics and Communication Engineering (Topper): PANNAGA S
BE – Electrical and Electronics Engineering (Topper): BHAVYASHREE B C
BE – Industrial and Production Engineering (Topper): GEETHANJALI T K
BE – Information Science and Engineering (Topper): DIVYASHREE M D
BE – Mechanical Engineering (Topper): CHANDAN N
M.Tech. – CAD of Structures (Topper): GOWTHAMI H N
M.Tech. – Computer Science & Engineering (Topper): MANOJ Y R
M.Tech. – Machine Design (Topper): VIKAS G N
M.Tech. – VLSI Design and Embedded Systems (Topper): NISARGA G S
Master of Computer Application (Topper – 3 Years): NAVEEN KUMAR
Master of Computer Application (Topper – 2 Years): NAGARJUN H M
Master of Business Administration (Topper): YAVANICA N

Various Endowment Awards are also awarded to Toppers of various programs donated by philanthropic donors.

BE – Electronics & Communication Engineering (Lady Topper): PANNAGA S

BE – Mechanical Engineering Science (Over all Topper):	**CHANDAN N**
BE – Civili Engineering Science (Over all Topper):	**BI BI MISBA**
BE - Computer Science & Engineering (Over all Topper):	**SATHWIK M**

Special Endowment Awards are given to

- **PANNAGA S [4PS18EC065]** - 289 marks out of 300 (Excepted 4th Semester COVID Passing Marks) - Topper in Engineering Mathematics

All toppers of Post Graduate programs will be awarded **Dr. H D Chowdaiah** Merit Award.

Program starts with Invocation and Nadageethe. Members of Governing Council, Academic Council, Board of Studies and Board of Examiners, Faculty, Staff, Students and Parents will be present on the occasion.

Dr. Umesh D R
Dy. Dean – Academic

Dr. R Girisha
Dean – Academic

PROGRAMME :

1. Invocation
2. Naadageethe
3. Welcome Speech by **Dr. R. M. Mahalinge Gowda**, Principal
4. Graduation Day Protocol begins
5. Graduation Day Address by Chief Guest :
   - **Sri. Prashanth Prakash**
   Founding Partner, Accel, India.
6. Presidential Address by:
   - **Sri. K.S. Vijay Anand**
   President, People's Education Trust®, Mandya
7. Felicitation to Chief Guest by
   - **Governing Council Chairman**
8. Graduation Day Protocol Concludes
9. National Anthem
10. Procession Returns

Note:

1. Graduates are informed to attend and report at 09:00 AM for receiving and wearing gowns in their respective department.
2. Invitees shall occupy the seats in the venue by 10:00 AM and shall not leave the venue during convocation ceremony.
3. Wear mask and follow the SOPs prescribed by GoK.
4. Invitees or Graduates having any symptoms of fever / cold / cough are advised not to attend the Convocation Ceremony.
5. When the ceremonial procession enters the venue, all are requested to stand in their place till the dignitaries occupy their seats.
6. Maintain silence and discipline throughout the ceremony.
7. Switch off mobile phone in the venue.
8. Only parents can accompany the Graduates and children below 12 years are not allowed.
9. When the Convocation is over, all are requested to stand in their place till the ceremonial procession leaves the venue.

PEOPLE'S EDUCATION TRUST®, MANDYA

P.E.S COLLEGE OF ENGINEERING, MANDYA.

An Autonomous Institution affiliated to VTU, Belagavi and Aided by Govt. of Karnataka

Sri. K.S.Vijay Anand
President
PET®, Mandya

Cordially invites you to the

13th Graduation Day

Venue: Dr. H.D. Chowdaiah Auditorium
P.E.S. College of Engineering, Mandya

Date: Saturday, 07-01-2023
Time: 10:30 AM

13ನೇ ಪದವಿ ಪ್ರದಾನ ಸಮಾರಂಭ

ದಿನಾಂಕ : 07-01-2023 ಶನಿವಾರ
ಸಮಯ : ಬೆಳಿಗ್ಗೆ 10:30 ಘಂಟೆಗೆ

ಮುಖ್ಯ ಅತಿಥಿಗಳು :

ಶ್ರೀ ಪ್ರಶಾಂತ್ ಪ್ರಕಾಶ್
ಪೌಂಡಿಂಗ್ ಪಾರ್ಟ್ನರ್, ಆಕ್ಸೆಲ್, ಇಂಡಿಯಾ ಹಾಗೂ
ಅಧ್ಯಕ್ಷರು, ವಿಷನ್ ಗ್ರೂಪ್ ಫಾರ್ ಸ್ಟಾರ್ಟ್ ಅಪ್, ಕರ್ನಾಟಕ ಸರ್ಕಾರ.
ಪ್ರದಾನ ಭಾಷಣಕಾರರು.

ಸಮಾರಂಭದ ಅಧ್ಯಕ್ಷತೆ :

ಶ್ರೀ ಕೆ.ಎಸ್. ವಿಜಯ್ ಆನಂದ್
ಅಧ್ಯಕ್ಷರು, ಪಬ್ಲಿಕ್ ಶಿಕ್ಷಣ ಟ್ರಸ್ಟ್ (ರಿ), ಮಂಡ್ಯ
ಪದಕ ಪ್ರದಾನ ಮಾಡುವವರು.

ಶ್ರೀ ಎಸ್. ಎಲ್. ಶಿವ ಪ್ರಕಾಶ್
ಕಾರ್ಯದರ್ಶಿ, ಪಬ್ಲಿಕ್ ಶಿಕ್ಷಣ ಟ್ರಸ್ಟ್ (ರಿ), ಮಂಡ್ಯ
ಪದವಿ ಪ್ರದಾನ ಪತ್ರ ಪ್ರದಾನ ಮಾಡುವವರು.

ಸರ್ವರಿಗೂ ಹಾರ್ದಿಕ ಸ್ವಾಗತ

ಸ್ಥಳ: ಡಾ. ಹೆಚ್.ಡಿ. ಚೌಡಯ್ಯ ಸಭಾಂಗಣ
ಪಿ.ಇ.ಎಸ್. ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜು, ಮಂಡ್ಯ

ಡಾ. ಮಹೇಂದ್ರ ಬಾಬು ಕೆ.ಜೆ.	ಡಾ. ಆರ್. ಗಿರೀಶ	ಡಾ. ಆರ್.ಎಂ. ಮಹಾಲಿಂಗೇಗೌಡ
ಪರೀಕ್ಷಾ ನಿಯಂತ್ರಣಾಧಿಕಾರಿ	ಡೀನ್(ಶೈಕ್ಷಣಿಕ)	ಪ್ರಾಂಶುಪಾಲರು

ಆಡಳಿತ ಮಂಡಳಿ, ಸಿಬ್ಬಂದಿ ಮತ್ತು ವಿದ್ಯಾರ್ಥಿಗಳು
ಪಿ.ಇ.ಎಸ್. ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜು, ಮಂಡ್ಯ

13th Graduation Day

Date : Saturday 07-01-2023
Time : 10:30 AM

Chief Guest :
Sri. Prashanth Prakash
Founding Partner, Accel, India &
Chairman, Vision Group for Startup, GOK.
Will Deliver Graduation day Address

Presided by:
Sri. K.S. Vijay Anand
President, People's Education Trust®, Mandya
Will Confer Degree Medals

Sri. S.L. Shiva Prasad
Secretary, People's Education Trust®, Mandya
Will Confer Certificates

Please do come and grace the occasion

Venue : Dr. H.D. Chowdaiah Auditorium
P.E.S. College of Engineering, Mandya

Dr. Mahendra Babu K.J	Dr. R. Girisha	Dr. R.M. Mahalinge Gowda
Controller of Examinations	Dean(Academic)	Principal

Management, Staff & Students
PESCE, Mandya

SUMMARY OF RESULTS (AY 2021-22)

Sl. No.	Programme	No. of Students	
		Appeared	Eligible
PG PROGRAMMES			
Master of Technology (M.Tech.)			
1	CAD Structures	**13**	**13**
2	Computer Science and Engineering	**06**	**06**
3	Machine Design	**02**	**01**
4	VLSI Design and Embedded Systems	**08**	**08**
i	**Total (M.Tech. Programmes)**	**29**	**28**
ii	**Master of Business Administration**	**55**	**55**
iii	**Master of Computer Application (3 Years)**	**08**	**08**
iv	**Master of Computer Application (2 Years)**	**60**	**60**
UG PROGRAMMES			
1	Automobile Engineering	**31**	**29**
2	Civil Engineering	**135**	**134**
3	Computer Science Engineering	**136**	**129**
4	Electronics and Communication Engineering	**134**	**131**
5	Electrical and Electronics Engineering	**66**	**65**
6	Industrial and Production Engineering	**41**	**41**
7	Information Science and Engineering	**53**	**51**
8	Mechanical Engineering	**132**	**131**
v	**Total (B.E. Programmes)**	**728**	**711**
	Grand Total (i + ii + iii + iv + v)	**880**	**862**

TOPPERS & GOLD MEDAL WINNERS 2021-22

UG Programs				
Sl. No	**Name**	**USN**	**CGPA**	**Department**
1.	AJEY THIMMAIAH K	4PS18AU004	8.76	Automobile Engineering
2.	BI BI MISBA	4PS18CV018	9.67	Civil Engineering
3.	SATHWIK M	4PS18CS097	9.72	Computer Science and Engineering
4.	PANNAGA S	4PS18EC065	9.42	Electronics & Communication Engineering
5.	BHAVYASHREE B C	4PS18EE009	9.11	Electrical & Electronics Engineering
6.	GEETHANJALI T K	4PS18IP013	8.88	Industrial & Production Engineering
7.	DIVYASHREE M D	4PS18IS013	9.2	Information Science & Engineering
8.	CHANDAN N	4PS18ME016	9.09	Mechanical Engineering
PG Programs				
9.	GOWTHAMI H N	4PS20CCS01	8.86	Civil Engineering (CAD of Structures)
10.	MANOJ Y R	4PS20SCS03	9.56	Computer Science and Engineering (Computer Science and Engineering)
11.	VIKAS G N	4PS20MMD02	9.07	Mechanical Engineering (Machine Design)
12.	NISARGA G S	4PS20LVS04	9.06	Electronics and Communication Engineering (VLSI Design and Embedded Systems)
13.	YAVANICA N	4PS20BA060	8.74	Management Studies (Master of Business Administration)
14.	NAVEEN KUMAR	4PS19MCA03	8.75	Computer Applications (3 Years) (Master of Computer Application)
15.	NAGARJUN H M	4PS20MC029	9.03	Computer Applications (2 Years) (Master of Computer Application)

ITEM-5	Academics
5 (e)	**Report on NPTEL(National Programme on Technology Enhanced Learning) Chapter**

Prof. Vinay Kumar H S, Assistant Professor, Department of Electronics & Communication Engineering is a MooCs Coordinator and SPOC for NPTEL activities. The NPTEL information are communicated to all faculty / students through department HoD's and coordinator. There are around 2500 courses registered from PESCE for NPTEL online courses during July, 2022 – April, 2023. The NPTEL online course used as part of the Self Study course for BE - P18 Scheme final year students.

STUDENTS				
Course Period	**No. of Courses registered by Student**	**No. of students Registered for MOOCs**	**Exam taken by student**	**Total Students passed**
Jan –April 2023	**952**	**436**	**432**	**304**
July-Dec 2022	**880**	**536**	**531**	**408**

FACULTY				
Course Period	**No. of Courses registered by Faculty**	**No. of faculty registered for MOOCs**	**Exam taken by Faculty**	**Total faculty passed**
Jan –April 2023	**24**	**01**	**01**	**01**
July-Dec 2022	**23**	**04**	**04**	**01**

Course Period	Exam taken by student / Faculty	Awarded					
		Topper	Elite + Gold	Elite	Elite + Silver	Successful	Participation
Jan-April 2023	**433**	**16**	**01**	**57**	**118**	**129**	**128**
July-Dec 2022	**535**	**06**	**9**	**49**	**154**	**197**	**123**

ITEM-6	Approvals from Statutory Bodies
6 (a)	Report on NBA (National Board of Accreditation) Accreditation

All UG & MBA Programs applied for NBA accreditition and the status for the same are listed below:

Sl. No.	Programs	Period of Accreditation	Remarks
1.	Automobile Engineering	July, 2020 – June, 2023	NBA practice is on but fails to apply SAR due to lack of student admission.
2.	Civil Engineering	July, 2023 – June, 2026	Accredited
3.	Computer Science & Engineering	July, 2021 – June, 2024	Accredited
4.	Electronics & Communication Engineering	-	Failed to get Accredited
5.	Electrical & Electronics Engineering	July, 2023 – June, 2026	Accredited
6.	Industrial & Production Engineering	July, 2021 – June, 2024	NBA practice is on but fails to apply SAR due to lack of student admission.
7.	Information Science & Engineering	July, 2023 – June, 2026	Accredited
8.	Mechanical Engineering	July, 2023 – June, 2026	Accredited
9.	MBA	-	NBA Expert Team Visited on Aug-2023 and waiting result
10.	MCA	-	NBA practice is on and ready to apply for Accreditation

ITEM-6	Approvals from Statutory Bodies
6 (b)	Report on NAAC (National Assessment & Accreditation Council) Accreditation

NAAC accreditation was valid up to August 15th, 2023. In continuation, NAAC pre-qualifier was submitted and at the end of October, 2023 the institute has to submit the SAR.

ITEM-6	Approvals from Statutory Bodies
6 (c)	Report on NIRF (National Institutional Ranking Framework)

PES College of Engineering (PESCE), Mandya, has secured rank in the band 151 – 200 at National-level in Ministry of Education's National Institutional Ranking Framework (NIRF)-2023 among engineering institutions as announced by Minister for Education. The College had secured earlier 137th Rank in NIRF-2022, 139th Rank in NIRF-2021, 147th Rank in NIRF-2020, 161st in NIRF-2019 and improved the ranking position by 2 places to 137th in NIRF-2022.

NIRF parameters cover Teaching, Learning & Resources, Research & Professional Practices, Graduation Outcomes, Outreach & Inclusivity and Perception. Out of nearly 10,000 engineering institutions in India, about 1,100 institutions participated in NIRF-2022. Out of it, only top 200 institutions are listed by the Ministry under NIRF.

Further, the institute has secured rank in the band 11 – 50 at National-level in Ministry of Education's National Institutional Ranking Framework (NIRF) Innovation -2023

ITEM-6	Approvals from Statutory Bodies
6 (d)	Report on Extension of Autonomy by UGC / VTU

The University Grants Commission expert committee has extended the autonomous status to PES College of Engineering, Mandya – 571401, Karnataka affiliated to Visvesvaraya Technological University, Belagavi for a period of five years w.e.f. 2019 – 20 to 2023 – 24 including ex-post-facto approval for the period 2017 – 18 to 2018 – 19.

ITEM-6	Approvals from Statutory Bodies
6 (e)	Report on Permanent affiliation by VTU

The Visvesvaraya Technological University, Belagavi has granted the Permanent affiliation up to 2024-25 to all UG & PG courses (Except Computer Science & Engineering [AI&ML] and Master of Computer Application)

ITEM-7	A Brief Report on Student Induction Program for BE - I year students of AY 2022 - 23

As per AICTE mandate Student Induction Program was organized for BE – I year students of AY 2021-22 in two phase.

Schedule of First Phase Student Induction Program

Academic Year: 2022-23

P.E.S. College of Engineering, Mandya – 571 401, Karnataka
10-Days student Induction Program for 1st Semester B.E. Students
Academic Year: 2022-23

Day & Date	P/C	Session – I (02:15 pm – 03:30pm)	03.30 to 03.45 PM	Session – II (03:45 pm – 05:00pm)
Day 1 01-12-2022	**P&C**	Inauguration Program	TEA BREAK	Familiarization of the departments
Day 2 02-12-2022	**P&C**	Brief History of Mandya **Resource Person:** Mr. Sripadu		Familiarization of campus and science park.
Day 3 03-12-2022	**P&C**	Importance of Basic Sciences in Science and Technology **Resource Person:**Mr. Abhishek K S		Awareness on Competitive Examinations **Resource Person:** Mr. Somashekhara L Hulmani and **Ms.** R. Aishwarya, KAS
Day 4 05-12-2022	**P&C**	The role of applied sciences In engineering disciplines for achieving technology and innovation **Resource Person:** Dr. Pandurangamurthy		B. E. Academic Rules and Regulations **Resource Person:** Dr. Umesh D. R
Day 5 06-12-2022	**P&C**	Excelling beyond belief systems **Resource Person:** Sri. Raghav		About ISTE, YRCW and NSS-Student wing **Resource Person:** ISTE PESCE Team
Day 6 07-12-2022	**P&C**	Clean revolution for new generation **Resource Person:** Mr. Chandrashekar Heggove		About IEEE **Resource Person:** IEEE PESCE Team About GLUG **Resource Person:** Glug PESCE Team
Day 7 08-12-2022	**P&C**	On Innovation and Entrepreneurship **Resource Person:** Mr. Siddesh Kumar		On Innovation and Entrepreneurship **Resource Person:** Mr. Harshith Kumar
Day 8 09-12-2022	**P&C**	Personality Development **Resource Person:** Mrs. Sumana T. D.		Ethos and Culture of the institution **Resource Person:** Mr. M. A. Venugopal
Day 9 10-12-2022	**P&C**	Orientation Program		Orientation Program

Report Details:

The student Induction Program (SIP) was conducted in phased manner as per the schedule given in tables above.

I. FIRST PHASE:

Inauguration of I - Phase induction Program

On 01st December 2022, Thursday: All the new entrants were guided by the faculty members at different entry points, to their seats in the main auditorium. The dignitaries were requested to take their seats on the dais; Res. Principal Dr. R. M. Mahalinge Gowda, Dean and Deputy Dean of Academics & Research, COE and HODs of all Departments, Heads of various Cells were present. The Inauguration program started with invocation song by Ms. Bhat and team, followed by the welcome speech by the Induction Program Coordinator Dr. Nayaka S. R. The Principal addressed the gathering remembering the contributions and dedication of Late Sri. K.V.S., The Founder of P.E.S. Institutions. He briefed the students on the Vision and Mission of the College, encouraging them to use the infrastructure available in the College. He further advised the students to set the right path for their future and congratulated them for choosing PESCE. The students were then introduced to Dean and Dept. Deans, COE, Department heads of all the Depts., heads of various other Cells. The program ended by a formal vote of thanks by the program Coordinator.

02nd December 2022, Friday: About the Speaker:

Mr. Sripadu was born on 18th June 1951 in Shivapura, Maddur. He did his B.Sc. in PES College of Science, Arts and Commerce, M. A. Literature, Criminology from Banaras University and is currently the Editor and Publisher of Kolalu dinapatrike in Mandya.

The speaker started with the title catchphrase ‘Mandya is the land of Sugar and Power’; he gave a brief legacy of the contributions made by various eminent personalities of Mandya district to the land and culture. The speaker remembered Sri. B.M. Sri, Smt. Triveni (kannada writters), Sri. Arasingayya Perumal (Physics and Mathematics professor), Sri. Kempegowda, Kodiyala Sri. Nannappa (musicians), Malavalli Sri. H. M. Simha (Film director), Keelara Sri. Babu (buider), Maddur Sri. Ramamurthy (who designed Karnataka flag), Ingalakuppe Smt. Nagaratna (SC Judge),

Dr. Rajaramanna (Educationalist), Srirangapatna Sri. Srinivas (ISRO Ex-director), Sri. Melukote Balehalli Seturanga, etc for their contributions. The speaker revealed that Mandya has around 124 inscriptions, 240 old temples and is the house of about 64 types of kolata (folk dance). He remembered the then King of Mysore Sri. Nalwadi Krishnaraja Wodeyar & his deewan Sir M. V for their contributions to Mandya district. The speaker recalled Mandya sugar factory that was opened in 1833-34 and had won 3 gold medals at national level for its production; he explained to the young minds how the electricity from Shivanasamudra was taken to KGF, and the difficulty of working labour at those times. Recalling Mahatma Ghandi's twice visit to Mandya in 1928 and 1936, he recollected the influence of Mahatma on the people of Mandya. The lecture motivated and created a pride in the young minds of students, which was later evident in the feedback session.

03rd December 2022, Saturday: Sri. Abhishek is a Science communicator, educator who is promoting basic sciences at rural level. He has been motivating students since 2012 and has visited more than 100 colleges giving lectures and inspiring young minds. Mr. Abhishek has written several scientific articles and is a science advisor to many Schools, he has received many awards, to name few, National Youth award, Young Scientist award from KSTA, etc.

Mr. Abhishek started his talk by tossing the slogan 'Today's Science is tomorrow's technology'. Remembering the legacy of India's ancient sciences, he called upon the students to observe the nature around them; as the systematic study of nature is nothing but Science. The speaker spoke on Quantum computer and artificial intelligence, which works on mathematical computations and principles of Physics. He further appealed that it is only through collaboration of basic science & technology, from which new inventions can emerge out. Finally he called upon students to inculcate in them critical thinking, good culture, ethics, principles, activity based learning through which they can activate their thinking process and hence will be able to contribute through their learning's.

1. **Mr. Somashekhara L Hulmani** is the Founder and Director of Topper IAS Academy; the institution trains UPSC/KPSC aspirants. Having 10+ years of experience in training Civil Service aspirants.

2. **Ms. R. Aishwarya,** is a KAS officer, working as Assistant Commissioner of Mandya Urban Development Authority. She completed her B. E. graduation from NIE, Mysuru with a gold medal, cleared her KAS in 2014 and has rendered her service in various departments.

3. **Mr. Somashekar** started his session by underlining the difference between competitive and degree exams, on some Myths about competitive exams, like the level of difficulty, lack of confidence, lack of skills, approach involved in preparing for the UPSC/KPSC exams. He encouraged the students to take Indian Engineering Services and gave them various tips to be followed while preparing for the exams. The speaker addressed on several issues like time problem, punctuality, choosing priority; and on how to address these issues. He finally detailed that it is the will that is required more than any other that can provoke an aspirant to become an IAS/KAS officer and that your vision towards rendering services to the society matters. Dr. B. Shanmukha, HOD of Dept. of Mathematics rendered the vote of thanks to the speaker.

4. **Ms. R. Aishwarya**, Deputy Director of Mandya Urban Development Authority started her session with an interacting session addressing the students about their future vision and dreams. Highlighting that Mandya is the second richest city of Karnataka due to the water intensive crops grown in the region, she called upon the students to be a continuous learners and termed real world to be a big University. The speaker further spoke on the vision, ethics and commitment required for clearing competitive examinations.

Both the speakers exceedingly oriented the young minds towards the service sectors- that they could give their service and time towards the society from their learning's and wisdom.

05th December 2022, Monday Dr. Pandurangamurthy got his Ph. D. in Botany in 2005 from University of Mysore, Mysuru and is currently the CEO and Project Director of HSF, Tumkuru. He has to his credit many awards, to name few, Jr. Scientist award, DST Fast Track Young Scientist Project award, Best Projects award, Young Scientist (ISCA) award. He has supervised as Principal Investigator several Major projects successfully and has given numerous talks at many distinguished platforms.

The speaker started his talk explaining the role and importance of fundamental research in any field. He thus highlighted the significance of basic sciences in the field of engineering and technology; and pointed out that a break through research can only be achieve if basic sciences and technology go hand in hand. The speaker motivated the students saying Physics is the real science, Chemistry is the central of science and that Mathematics is the beauty of science. He pointed out that basic sciences are the mother of technology – achieved via engineering and that science is a practical explanation of anything in this universe. The speaker briefed the contribution of basic sciences to sustainable development. He also spoke on the various funding agencies available for start-ups. The speaker later

switched explaining some of his projects and explained how on can utilize his knowledge and findings to the upliftment of the society. He finally advised the young minds to work and focus on local issues with top priority and find solutions for them.

The Deputy Dean of Academics Dr. Umesh addressed the entrants enlightening them with the academic aspects of the course, the rules and regulations of an autonomous college. They were briefed about the academic terminology's – Choice based education, Outcome based education, Credit system, Grading system, conditions for vertical progression, assessment methods, attendance requirements, course registration, course duration, earning of activity points, evaluation process, graduation requirements, conditions for the award of the degree and rank, termination from the program, re-registration for the course and finally about the conduct and discipline.

06th December 2022, Tuesday About the Speaker: M.S.Raghu is a certified Master Trainer in NLP. He is trained under Michael Lawrence, William Horton and Dick McHugh of USA. He has been a professional trainer for more than three decades conducting over six thousand workshops for people from all walks of life from across the country. Mr. Raghu has addressed many CII forums, conducted workshops at various educational institutions covering more than six lakh students, parents and teachers. He has trained over six hundred police personnel of Mysore district under the dynamic leadership of SP Ravi D. Channanavar and one hundred and fifty police personnel of Chikmagalur led by SP Annamalai.

Mr. M.S. Raghu addressed on the issues of developing memory and concentration, he also supported in building self-confidence. His session shared insights on staying in a positive state of mind along with building leadership qualities. The students were highly motivated by his lecture.

The Student Chapter members-Mr. Kenneth, Mr. Thejas, Ms. Chandrakala, Mr. Adithya, Mr. Srujan of the Indian Society for Technical Education (ISTE), Youth Red Cross Wing (YRCW) and National Service Scheme (NSS) addressed the newcomers about their respective wings; they explained the entrants about the History, Objectives, working culture, advantages of joining these wings and about the various activities conducted by these divisions. The audience were shown with numerous videos showcasing the activities done by each of these chapters. The listeners were asked to enrol themselves for the chapters and to render their service for the nation.

07th December 2022, Wednesday H. S. Chandrashekar is a B.E., M. Tech., graduate in Information Science and Engineering. He is the CEO of CLEARIN and has delivered talks about 'Waste management and its Proper disposal' in numerous Schools and Colleges.

The Speaker started his lecture with the label 'My waste my responsibility', he explained the students the meaning and need of solid waste management. **The various means of collecting, processing and disposing** solid waste materials. The speaker appealed that human interaction with the environment has resulted in the creation of waste, which has to be disposed and attended with high interest. Wastes like discarded materials from homes, workplaces, restaurants, factories, hospitals, pesticides sprayed on fields have to be attended properly. The speaker exhibited various means on how these can be achieved. He called upon students not to leave home without 3B's-Bag, Box and Bottle and further taught the students how to make simple paper bags, eco bricks and asked them to visit his website-www.clearin.in for more information on the same. He presented various videos educating the young minds about the waste management. The lecture taught the students about solid waste management, including trash management methods and their benefits.

Mr. Skanda, Chairman of IEEE-PESCE explained about IEEE, its Mission, Vision, its Objectives, how to join IEEE-details of membership-its benefits, how to get involved with IEEE-conferences, local activities, volunteering, etc. He further explained about the various activities the cell had conducted during the last few years and encouraged the new comers to join hands with IEEE-PESCE. The IEEE-PESCE team conducted quiz for the entrants and presented them cookies and t-shirts as a mark of encouragement.

Mr. Srujan, member of GLUG-PESCE community, explained about GLUG (GNU/Linux Users Group), briefing that the cell is a socio-technical community which urges for Free Education and Free Society. He informed that today GLUGs are huge communities all around the world and that the ideology of GNU/Linux Users Group is the brainchild of Free Software Movement. The speaker explained that GLUG-PESCE is the virtual body of FSMK, started in the year 2012; to spread the word of Free Software in Mandya city and has got many active members who are working towards the goals of Free Software. He appealed the listeners' to contribute for FOSS tools by joining GLUG-PESCE.

08th December 2022, Thursday The Speakers from Institute and Innovation Council (IIC) explaining the Vision and Mission of IIC-PESCE briefed that the main objective of IIC cell is to create an environment for students and faculty to innovate and bring their ideas into reality with necessary set-up. Additional, the unit shall assist students and faculty innovations in getting support from government, industries and reputed academic institutions around the world, thereby encouraging the aspirants to present their innovations to the society. Further, the entrepreneurial unit of IIC in PESCE shall play a key role in identifying, mentoring, nurturing innovative potential of students, faculty and staff. The Speakers enlightened the young minds about the various terminologies such as patents, K-tech, start-up India, start-up Karnataka, incubation centre, NAIN, MSME, Elevate, Nidhi, Prayag, etc,.

The student coordinators of the wing further explained about the need and support the cell shall be providing to the young technical students for showcasing their findings.

09th December 2022, Friday The Speaker explaining the need of developing the communication and interpersonal skills of an individual. She alleged that these abilities help one to acquire a good job and to achieve ones career goals. Interacting with the audiences, she explained how one should showcase self with his/her strengths. She further communicated that Personality development is a long term enduring process that involves shaping and fostering an individual's interest, skills and knowledge to utilize their full potential. It was a beneficial interactive session, which the students enjoyed and participated with complete zeal.

The Student Welfare Officer (SWO) of PESCE Mr. Venugopal explained that following the ethos and culture of the Institution are the key determinants in promoting social and emotional wellbeing in the College. He illuminated the core values, attitudes, beliefs and **culture** of PESCE and enlightened that the feeling of being connectedness, being accepted, respected and bonded to the College environment is of fundamental significance for any student. The Speaker promised that as SWO of PESCE, he is bound to **provide social support to students-at-risk and shall** address barriers to learning and strengthen the safety net for all the students.

Conclusion:

Overall, the Induction Program was successfully conducted with the cooperation of Principal Dr. R. M. Mahalinge Gowda with the help of Hod's and Faculty (both Teaching & Non-Teaching) members of basic science departments. In the program we have conducted the activities as per guidelines given by AICTE, New Delhi. In this regard as a coordinator of Induction Program, I would like to express my sincere thanks to each and every one who are supported directly or indirectly for the success of this program.

ITEM-8	Report on Placement activities for the AY 2022-23

Placement Academic Record 2022-23

Sl. No	Branch	Total No. of Eligible Students	Single offer	Double offer	Triple offer	Four offer	Five offer	Six offer	Total Offers
1	CS	137	103	62	28	12	5	1	211
2	EC	189	116	42	14	3	*	*	175
3	IS	64	45	21	8	1	1	*	76
4	EEE	61	46	18	7	2	*	*	73
5	ME	146	86	16	5	1	*	*	108
6	IP	18	8	3	1	*	*	*	12
7	AUTO	33	10	3	1	*	*	*	14
8	CV	116	62	26	10	4	1	*	103
9	MCA	62	35	9	3	*	*	*	47
10	M. Tech.	10	4	*	*	*	*	*	4
11	MBA	60	35	3	*	*	*	*	38
	Total	**896**	**550**	**203**	**77**	**23**	**7**	**1**	**861**

Refer ANNEXURE – II (Page. No. 132) for department wise placed student list

ITEM-9	Research Accomplishments
9 (a)	List of PESCE Faculty Members who have obtained Ph.D. during the period 2022 – 23.

Ph.D awardees list from July 2022 to August 2023

Sl No.	Research Scholar	Guide Name	Awarded University	Date of Viva held / awarded	Title of the Thesis
1.	Nanda B S	Dr. P S Puttaswamy	UOM	27th July 2022	Investigation on Graphene Field Effect Transistor High Frequency Flexible Transparent Displays
2.	Rashmi R	Dr. B Ramachandra	VTU	05th Jan 2023	Design and Development of Adaptive Headlamp leveling system using Occupant Detection method.
3.	Anantha Kumar B.N	Dr. J Mahadev	UOM	17th Jan 2023	Studies on simulation of Physical parameters using Single Crystal Data of some Organic Compounds
4.	Shwetha H.N	Dr. B Shanmukha	VTU	19th Jan 2023	A Study of Various Graph Labelling Techniques and Energy of a Graph
5.	G.C Ramesh	Dr. T Nagaraj	VTU	27th Jan 2023	Synthesis and Performance Evaluation of Bio-Lubricants for Bearing Lubrication
6.	K .U Vinayaka	Dr. P.S Puttaswamy	VTU	30th Jan 2023	Adaptive controlTechniques for Improvement of Power Quality due to Nonlinearloads
7.	Sahana Raj B.S	Dr. V Shridhar	VTU	15th Feb 2023	Secured Storage and Retrieval of Medical Data Records using Crypto Systems.
8.	Manasa K N	Dr. M C Padma	UOM	19th May 2023	A Framework for Analysing the Intensity of Sentiments in Social Media.
9.	Manjunath N	Dr. C. R Rajashekar Dr. J Venkatesh	VTU	19th June 2023	A Comprehensive study on Combustion Characteristics and Durability of converter of Metal based Biodiesel Fueled CI Engine.
10.	Naveen Kumar S	Dr. T. M Prakash	VTU	25th July 2023	Technical And Economical Feasibility of Value Added Materials and Mesh Orientation in Concrete.

11.	Lakshmi P. S	Dr. B. S Jayashankar babu	VTU	25th July 2023	Technical And Economical Feasibility of Using Value Added Materials in Mortar And Masonry Unit.
12.	Veena M	Dr. M. C Padma	VTU	26th July 2023	Techniques for early detection of Breast cancer using Multimodal images.
13.	Poojitha R	Dr. Puttaswamy	UOM	2nd August 2023	A Study on certain aspects in the Domination and Energy of Graphs.
14.	Bharath M. R	Dr. K. A Radhakrishna Rao	VTU	25th August 2023	Study of Hand Vein Traits in Multimodal Biometric Fusion System for Enhanced Performance.

ITEM-9	Research Accomplishments
9 (b)	**Sponsored Research Projects for the AY 2022-23**

SPONSORED PROJECTS - 1

Funding Authority: AICTE funded project under Research Promotion Schemes (RPS)-General

Year: 2021-22 (Three years duration)

Proposal Title : "A novel method to form the inter-metallics in aluminum metal matrix composites while friction stir processing and welding".

File No. **8-137 / FDC/ RPS/POLICY-1/ 2021-22**

AQIS ID: 1-9276814312

Sanction amount: **Total Rs. 18, 76,500/-**

First year: **16, 41,937/-** only (with recurring 14,07,375/- and non-recurring 2,32,532/-)

Principal investigator: **Dr. Sadashiva M**

Co PI : **Prof. Ramesh Kurbet**

Summary of Proposal: Significance of the research project is to improve the wear resistance and improve the bond strength of the Aluminum and Magnesium. The leakage in the fuselage parts and rocket components is a major issue and joining of the cooling unit in the automobile also requires defect less joining. When comes to the general application the housings for cell phones, control panels and to get high quality weld for high conductivity in transformers and batteries. Hence Friction stir welding (FSW) can be used as welding machine and surface modification technique.

SPONSORED PROJECTS - 2

Funding Authority: VTU Belagavi under Research Grants Schemes (RGS)- 2021

Year: 2021-22 (Two years duration)

Proposal Title: **"Study of Dynamic Stability and Effect of Vehicular Parameters on Road Fatalities of Indian Light Motor Vehicles**".

File No. **VTU/BGA/Aca/A-12/VTU RGS/DIS-ME/2021-22/5862/25 Dated 18-02-2022**

Sanction amount: **Total Rs. 10 Lakhs**

First year: **8.25 Lakhs** First year: **1.75 Lakhs**

Principal investigator: **Dr. Madhusudana C K**

Co PI's: **Dr. K M Jagadeesha and Mr. Gopalareddy**

Summary of Proposal: Significance of the research project is the study of vehicle stability condition for longitudinal and lateral dynamics considering vehicular parameters and tire parameters. Research results help the government agencies to reframe the guidelines in assessment of road vehicle fatalities considering vehicle dynamic parameters and educate the people as to consider the vehicle dynamic parameters in selection of new vehicle platform. Also it helps to understand the effect of vehicular parameters like speed, CG location, etc., and tire parameters on vehicle longitudinal and lateral stability under different driving maneuvers.

SPONSORED PROJECTS - 3

Grant details: Setting up New Age Incubation Network (NAIN)
Funding Agency: Government of Karnataka
Amount: Rs 1.2 crore over a period of three years (Rs 40 lakhs every year)
Applied by: Dr. Vinay S, Professor, CSE & TPO

NAIN (New Age Incubation Network) is an entrepreneurial development program of the Government of Karnataka that focuses on creating an ecosystem to promote innovation and entrepreneurship in Karnataka.

Under this scheme, K-tech Innovation Hubs are established in various districts of Karnataka, which are fully funded by the Government of Karnataka. The students studying in different disciplines are motivated by project funding and mentoring to set up their own start-ups for self-employment.

Under NAIN, students are encouraged to identify local problems and address those problems using concepts of frugal innovation to develop appropriate technology-based solutions and working prototypes. The mentors assigned to the students help them formulate a business model based on this new technology and encourage them to think like entrepreneurs.
The scheme provides Rs 40 lakh per year, of which 10 ideas are funded up to Rs 3 lakh, totaling Rs 30 lakh. In addition to this, operational expenses of Rs 10 lakh every year are part of the scheme.

SPONSORED PROJECTS - 4

AICTE Project under Research Promotion Scheme (RPS-Mgmt)

Principal investigator: Dr. Aluregowda

Project Title: Microfinance initiatives for financial inclusion achieving though Empowering Rural Women and Poor

Area of Research: Women Empowerment

Academic Year: 2021-22

Funded Amount: Rs. 2,00,000/-

SPONSORED PROJECTS - 5

The ICERECT-2022 international conference is funded by AICTE which provides a financial assistance of Rs. 3,66,700/- under the scheme Grant for Organizing conference (GOC) and it is scheduled on 26th & 27th December, 2022. The conference is focused on the research activities in the areas of computers, mobile, Digital Media, E-Commerce, Data Science, Artificial Intelligence, Robotics, Industrial Automation, IoT, Industry 4.0, Cryptography, and Blockchain. The faculty members of Electronics, IT-related and Electrical branches are very keen to enhance their knowledge in the above emerging areas to cope up with the new technological developments. Hence, this International conference ICERECT will focus more research papers in the above areas from the researchers of Indian and foreign universities and from the industries. This conference will be highly useful for the faculty, students and researchers.

ITEM-9	Research Accomplishments
9 (c)	List of Research Publications

No. of articles linked in Scopus DATABASE for last three years

Year	No. of Articles
2021	33
2022	30
2023	40

Department wise No. of Scopus Publication 2022 - 2023

Dept.	No. of Scopus Indexed Journals
AUTO	01
CSE	10
CV	06
ECE	17
EEE	11
IP	01
ISE	11
MECH	28
CHE	03
MATHS	04
PHY	05
MBA	01
MCA	02
LIB	01
	101

ITEM-9	Research Accomplishments
9 (d)	List of Patents till AY 2022 - 23

Sl. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications
1.	362873-001	Virtual Fault Detector	20-04-2022	Granted
2.	362874-001	Touch KIOSK	20-04-2022	Granted
3.	202241046175	A NOVEL DESIGN OF UV DISINFECTON ROBOT	12-08-2022	Published
4.	202241000664	Extraction of Energy through Magnetic Bearings	05-01-2022	Published
5.	202341016400	Predicting child mental stress using AI	17/03/2023.	Published
6.	202341016401	IOT based solar powered battery less street light	17/03/2023.	Published
7.	202341016403	An AI enabled solar panel rotation system	17/03/2023.	Published
8.	202341016404	Certificate authentication system with block chain technology	17/03/2023.	Published
9.	202341016405	Design of low cost solar instant solar heater	17/03/2023.	Published

10.	202341029752	A novel design of Portable coffee harvester to pluck the coffee beans	25/04/2023.	Published
11.	20234107955	A novel method to reduce hardness by using filter materials	2023	Published
12.	202341028533	Method of Producing masonry units using sugarcane badasse ash as a value added materials	2023	Published

ITEM-9	Research Accomplishments
9 (e)	Centres of Excellence established at PESCE

- **Mechanical Engineering — Center for Diagnostic Maintenance (CDM)**

In recent times Condition-Based Maintenance (CBM) and Prognostics has emerged as a significant technology that is making an impact on industrial maintenance practices. CBM technology characterized by the merging and strong coupling of interdisciplinary trends from the engineering sciences, computer sciences, reliability engineering, communications, management, etc. All these diagnostic and prognostic technology elements, techniques, and capabilities must be applied and implemented wisely to obtain maximum benefit impacts. The applications are in manufacturing systems, power plants, turbines, bearings, chemical plants, on-board car-engine diagnosis. Condition monitoring equipment is used extensively in the energy, petrochemical, cement, steel, paper and pulp industries.

- **Dept. of Electronics and Communication Engg. — VLSI Design Lab**

To provide good VLSI design facility to UG and PG students and develop facilities for research scholars in the field of VLSI design to achieve excellence in this field and to motivate faculty members to take up research work and guide students in this area of specialization. To conduct regular training programs for students and faculty members from other academic institutions who want to improve their knowledge and practical skill in VLSI design and embedded system. The facilities available in the VLSI and HDL lab are CAD tools 6.1.6.64 bit version, Xilinx EDA tool ISE 14.2 software and FPGA kit such as Spartan 6,Vertex 5,and Vertex 6. Using these facilities, the PG and UG students can do experiments and projects in VLSI design and HDL. The research scholars can use these facilities.

- **Dept. of Electronics and Communication Engg. — Medical Image processing lab**

The Facilities / services available are High-end workstations with high-resolution monitors (desktop computers), MATLAB Software-Version 15.B, Teaching Aid Interactive Panel, Network Accessories Router Cisco 1905.Work being carried in the areas; Diabetic Retinopathy, Retinopathy of Prematurity, MRI Image segmentation algorithms and Medical Image De-noising.

- **Dept. of Electrical & Electronics Engg. — High Voltage Insulation Lab**

Facilities / services available in the laboratory are Shielded Chamber Based on faraday cage Principle, Vacuum system with high pressure chamber, High Frequency High Voltage Generator, at lab 30MHz Dual Trace Oscilloscope, PD free High voltage Generation Unit, Shielded chamber based on Faraday Cage principle & PC based partial Discharge analyser.

- **Civil Engineering — Center for Alternative Energy Resource(CAER)**

This facility caters for, Awareness on Rain Water Harvesting and Bore well recharging techniques, Global warming, Green Environment, Water Pollution, Demonstration of Solar Energy, Bio- Fuel and

Bio Gas production using Kitchen waste. Encouraging various research activities in the entire Bio fuel chain involving universities and research organizations (UG students project program)

- **Computer Science & Engineering Internet of Things (IoT)Laboratory**

This Laboratory is dedicated to applied and basic research on topics related to the Internet of Things (IoT). It focuses on the research and design of "open" and "flexible" hardware and software solutions for the implementation of complex IoT systems, targeting different vertical application scenarios, from Smart Homes/Buildings, to Smart Factory, Smart City, and so on. All of the elements of the IoT technology stack are focus of our research, including: sensors and actuators for remote monitoring and control, communication systems, edge computing algorithms, cloud platforms, system key parameter indicators (KPI) and advanced user interfaces.

- **Information Science & Engineerting Network Forensics**

Network forensics is a sub branch of digital forensics relating to the monitoring and analysis of computer network for purposes of information gathering, legal evidence and intrusions detection, to carry out the project and research oriented work.

ITEM-10	Report on Industry Institute Interaction (III)

One of the of technical education challenges in the present scenario is the rapid pace of technology which makes skills obsolete at a greater pace before everyone else could learn from them. The excessive pace of technological changes has emphasized the need to integrate technological knowledge & skills in education and training to expand the employable capabilities of a knowledge-based professional.

The interaction between the Institute and the Industry is widely recognized as an essential requirement to train and develop the right kind of technical manpower necessary to sustain and promote industrial and economic growth. III-Cell can be considered as the platform for showcasing the best industrial practices, the latest technological advancements and their implementation and impact on the Industry.

With the advent of globalization and opening up of Indian economy to outside world, competition among industries have become stiff to solve the engineering problems, therefore the industries look up to engineering institutions. Keeping it in view & to promote the industry institute interaction a cell has been formed under the guidance of Hon. Principal and the support of PET$^{(R)}$, Mandya for imparting the overall development of its students and staff members.

At PESCE, the Industry Institute Interaction (III) cell has been established to foster interaction between faculty, staff and students with industry.

B. Objectives of III-Cell:

- To synchronize the quality of education and to meet the trend of the industry.
- To improve the employability of students.
- To coordinate and conduct value-added programs based on industry requirements.
- To integrate industrial training and other inputs for overall development of students.
- To offer research, development, consultancy and testing services to solve industrial problems.
- To share the experience and expertise between institutions and industry for mutual benefits.

- To improve curricula, faculty, infrastructure, pedagogy in line with the industry's requirements.
- Conducting Guest lecture/technical talk by eminent personalities, academicians, and leading industrialist at regular intervals to enhance the student's knowledge, about latest technical trends.
- To organize industrial visits for students to understand the practical implication of the subject matter of their respective disciplines.
- To coordinate for Memoranda of Understanding (MoU) between PESCE and industries to bring two sides emotionally & strategically closer.
- UG and PG projects/ dissertation work in industries under the joint guidance of the faculty and experts from industry.
- To get the successful transfer of technology between the industry and the institute.
- Professional consultancy by staff to the industry.
- Short-term assignment to faculty members in industries.
- Professorial Chairs sponsored by industries at the Institute.

C. Activities for the year 2022-23:

a. Memorandum of Understanding (MoU's):

In order to impart the knowledge of present and advanced technologies emerging in scenario, it is necessary to share the information about upcoming technologies. In this regard, III cell support for the Memorandum of Understanding (MoU) with various industries. III Cell identifies and coordinates for MoUs. Department wise Memorandum of Understanding done for the year 2022-23 are as follows:

1. MoU with Edu Skills Foundation and PESCE, Mandya:

This is MOU is made at Institute Level. Edu Skills is a Non-profit organization which enables Industry 4.0 ready digital workforce in India. Its objective is to fill the gap between Academia and Industry by ensuring world class curriculum access to our faculties and students. It disrupts the teaching methodologies and ICT based education system in India. It works closely with all the important stakeholders in the academia such as Students, Faculties, Education Institutions and Central/State Governments by bringing them together through our skilling interventions. Our three-pronged engine targets social and business impact by working holistically on Education, Employment and Entrepreneurship.

It majorly covers the Students, Faculties of circuit branches such as computer science, Electronics and communication, Information Science and Electrical and electronics engineering students. The MOU is done on 28th April 2022 at PESCE, Mandya. Hon. Principal Dr. Mahalinge Gowda from PESCE and Mr. Subhajith Jagadev from Edu skills foundation signed the MoU for a period of two years.

Fig: Photographs of MOU between PESCE and EDUSKILLS

2. MoU with Entel Cadd and Dept. of Automobile Engineering, PESCE, Mandya.

The MoU is made between Department of automobile Engg., PESCE and M/S Entel Cadd, No. 181, Hebbal Industrial area, Near K I A D B Ring road, Hebbal, Mysuru, Karnataka 570018. It is signed on 28th April 2022 at M/S Entel Cadd. The organization is into manufacturing, supply and design of gears, gearboxes and transmission equipments including spares. They also deal with refurbishing and reconditioning of old gear box and transmission equipments. The profile of the organization is well matched with automobile sector and more helpful for automobile engg students. Mrs. Archana, Asst Professor from PESCE Mandya and Mr. Mr. S. N. P. Yadav, Mr. L. N. Yeshwanth Nagendra, Chief Executive - Design & Engineering from Entel Cadd signed the MoU.

Mrs. Archana and Mr. S N P Yadav signed the MoU at Entel Cadd, Mysuru.

3. MoU with Government Tool room and Training Centre (GTTC), Mysuru and Dept. of Automobile Engineering, PESCE, Mandya.

The MoU is made between Department of automobile Engg., PESCE and Government Tool room and Training Centre (GTTC), # 93/94, Belagola Industrial Area, K.R.S Road, Mysuru-16. It is signed on 1st July 2022 at M/S GTTC, Mysuru. GTTC Mysore was established in the year 1992 with the participation of the Karnataka State Government, in collaboration with the Government of Denmark under the Bilateral Development Co-operation Agreement with DANIDA assistance. GTTC Mysore is a premier educational Institution offering Diploma, Post diploma and M Tech courses. It is functioning as an autonomous Institution under Depart of skill development Entrepreneurship & lively hood, Govt. of Karnataka. It is having facilities such as CNC, DNC, FMS,

Robotic technologies. They are pioneer institution in automation in plant industry training. Mrs. Archana, Asst Professor from PESCE Mandya and Mr. Radhkrishna, Mr Vinay GTTC Mysuru signed the MoU.

Mrs. Archana and Mr. Radhakrishna signed the MoU at GTTC, Mysuru.

4. MoU between Government Tool room and Training Centre (GTTC), Madduru and Dept. of Mechanical Engineering, PESCE, Mandya.

Govt. Tool Room & Training Centre, Maddur, Mandya district is a leading Tool Room & Training Centre in Karnataka. The major activity of the institution is in to promotion of purposeful technical education for the youths in Karnataka. It trains personnel for tool room at all levels, from tool room machinist to tool Engineers. Apart from this it offers solutions for Toolings, product development and has state of the art component manufacturing facilities. GT&TC has also embarked upon development of components and systems for various R & D organizations with a view to foster self-reliance and technical up gradation. Since it is nearer to Mandya location, PESCE can make use of the mutual coordination in imparting the industrial related knowledge in departments of mechanical engineering sciences. Dr. Rudresh Addamani, HOD of Department of mechanical engineering PESCE and Mr. Ramesh Babu, Director, GTTC, Maddur signed the MoU in presence of GTTC Maddur faculties at GTTC Maddur. The MoU is valid for a period of two years.

Mr. Ramesh Babu, and Mr. Ramesh Kurbet signed for MoU.

5. MoU between Salvin info system and Dept. of MBA, PESCE, Mandya.

This MoU promotes formal Tie-Up with PES College of engineering to impart integrated finishing school training under its flagship –Campus to corporate training program for the students of management. Salvin info system locates at No 434, 1st floor 17th main road, Krishna Temple Rd, opp. to Shree, KHB Colony, 5th Block, Koramangala, Bengaluru, Karnataka 560095. Salvin is focused on identifying and catering end to end Training and Recruitment needs in a comprehensive manner through a team of certified trainers. The organization provide services such as Certified HR Generalist Training, Corporate Accountant Training Programme, General Aptitude and Analytical Training, Advanced Tally and Excel, Banking, Soft skills Training, Online Training. Salvin is focused on identifying and catering end to end Training and Recruitment needs in a comprehensive manner through a team of certified trainers. The MoU is valid for a period of two years.

6. MoU between G-BOX Software Research & Development organization and Dept. of MBA, PESCE, Mandya.

This MoU promotes formal Tie-Up with PES College of engineering The new silver G:BOX image analysis systems all come with innovative touch screen GeneSys image capture software. Researchers select their combination and the software instructs the G:BOX to automatically set-up the filters and lighting for generating either one or a series of perfect gel or blot images. MBA students can avail the training facilities about marketing, finance and HR domine in the institute.

D) Industrial Visits:

Industrial visit have an importance in career building of a students who are pursuing a professional degree course The objective of an industrial visit is to provide the students an insight regarding the internal working of companies as theoretical knowledge is just not enough for a successful professional career. It is here that by going beyond academics, industrial visit provides students a much relevant practical perspective of the actual work place and the larger world of technology and business. All this makes the importance of Industrial visits all too evident.

1. Industrial visit to Unibic cookies, Bangalore by MBA Department

The Unibic factory brings the science of food technology to the art of creating delicious cookies. The facility located in Bangalore is the largest integrated cookie manufacturing plant in the country, with 5 production lines and a capacity of 30,000 tonnes a year. About 60 students of 2nd sem MBA course visited Unibic Cookies, Bangalore on 11th June 2022. Two faculty members Dr. Alure Gowda and Prof. Chethan M S accompanied the students. Students explained the activities of the plant well.

Fig: A group snap of students at M/s Unibic Cookies, Bangalore.

E) Technical Talk

1. Technical talk on on Career opportunities for MBA students in Banking sector

The technical talk was arranged by the Department of MBA on 2nd July 2022. The talk titled with Career opportunities for MBA students in Banking sector by Mr. Rakesh.N.Pradeep Manager, Kaveri Grameena Bank, Mandya. The resource person narrated the objective of the talk more effectively to the students. Dr. Alure gowda, HOD, Dr. Somashekhar, Coordinator , Prof. Chethan M S present in the talk. A student size of about 120 from second and fourth semester was taken the benefit of the task.

Fig: Mr. Rakesh.N.Pradeep delivering the talk.

ITEM-11 | Report on Institution's Innovation Council (IIC)

ABOUT

IIC-PESCE IIC-PESCE has established in the academic year 2018-2019 with an aim to create entrepreneurial environment in the HEI and its surrounding. And the organization is successfully running the IIC from the past five years with conducting ample amount of activities and trainings for students as well as faculties.

Council Members

SL NO	Name	Designation
1	Dr H M Nanjundaswamy	Principal
2	Dr. Vinay S	TPO, President IIC-PESCE
3	Mr. Pavan K N	Vice President IIC-PESCE
4	Mr. Siddesh Kumar N M	Convener IIC-PESCE
5	Dr. N Jagadeesh	Member
6	Mr. Chetan Kumar V	Member
7	H L Shilpa	Member
8	Mr. A C Kiran Kumar	Member
9	Mr. Manohar H C	Member
10	Ms. Megana S	Member
11	Dr. Mahesh	Member
12	Mrs. Rashmi M P	Member
13	Mrs. Divyashree M	Member
14	Mr. Akshay R N	Member
15	Mrs. Bhavya D	Member
16	Mr. Suraj B	Member
17	Ms. Gaana H	Member
18	Mr. Rakshith N	Member
19	Mr. Harshith Kumar T S	Member
20	Dr. Srinivas M R	Member
21	Mr. Avinash M	Member
22	Mr.Santhosh babu K C	Member
23	Mr. Srinath M S	Member
24	Ms.Shewtha M K	Member
25	Mr.Chinnegowda H S	Member

Roles and responsibilities of members defined at College level

SL NO	Name	Designation
1	Mr. Siddesh Kumar N M	ARIIA Coordinator
2	Mr. Akshay R N	Start-up activity Coordinator
3	Ms. Gaana H	Social media coordinator
4	Mr. Harshith Kumar T S	NIRF coordinator
5	Mr.Santhosh babu K C	Innovation Activity coordinator
6	Mr. Srinath M S	IPR coordinator

Path of IIC-PESCE

During the academic year 2018-2019, when IIC-PESCE established it has ONE STAR rating and same rating retained during academic year 2019-2020, and for the academic year 2020- 2021 IIC-PESCE has reached to THREE STAR rating followed by Three Point Five star rating in 2021-22.

Events Conducted:

- Faculty Development Program on Drafting & Filing of IPR as Intangible Asset.
- Strategy and leadership for career and entrepreneurship development.
- Tech Workshop On Cyber Security
- Tech Workshop On Internet of Things
- workshop on application of IoT using blynk server
- workshop on Entrepreneurship Skill, Attitude and behaviour Development
- Session on How To Pitch Your Start-up Idea
- Participated in W@W empowerment event which was organized by SJCE mysore.
- Workshop on 3D printing.
- Expert talk on Intellectual property and its protection in India.
- Technical talk on inspiration & innovation.

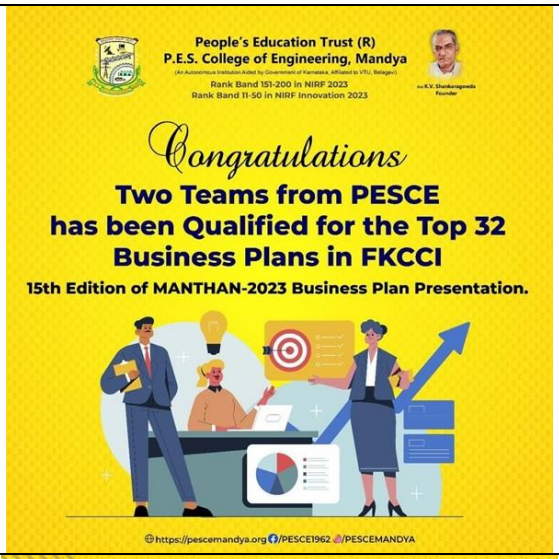
Activities:

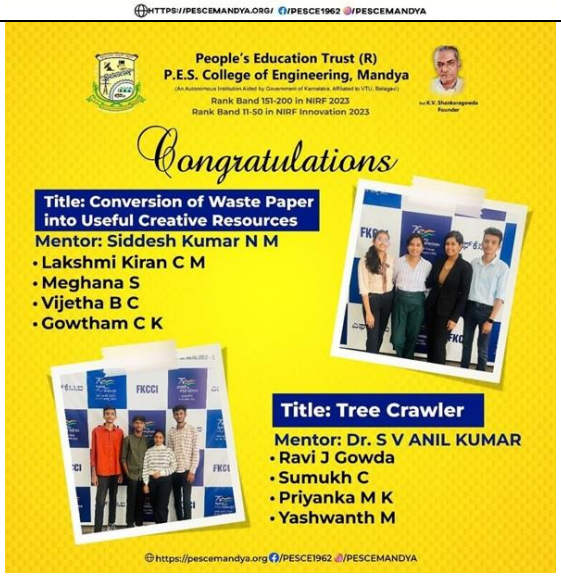
- 13 Members have completed Innovation Ambassador Foundation level course and registered for advance Innovation Ambassador Course. Model.
- 40+ activities conducted among student and faculties.
- Basic level boot camp have been planned and identified around 50 ideas.
- For the 1st year students a non-creditable course as part of skill development Rapid prototyping and Social Innovation course has been planned and completed.

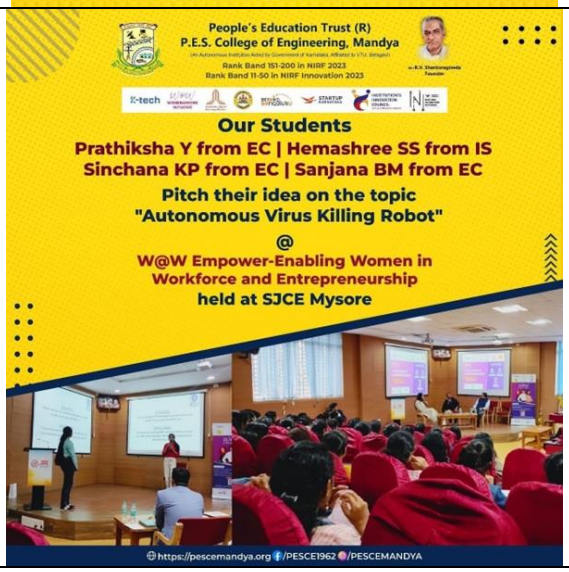
- As part of MSME Hackathon 2.0, 23 ides have received out of which 10 ideas were forwarded for PMAC out of which 1 idea have received a seed fund of 15 lakh.
- 80 Business Module canvas with posters has been designed by the 1st year students.
- 50+ Teams Participated in New Age Incubation Network Internal Hackathon, 15 teams shortlisted and sent to further process.
- Maker's space and thinker space lab equipped with laser cutting, 3d printing machines, other power and hand tools.
- Students from Computer Science & Engineering Department participated in the Mantan Business Pitching Competition and secured at top 33 best ideas.
- 9+ IPR patents have be registered.

ACHIEVEMENTS


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
Ranked 137th in NIRF - 2022
PORTABLE COFFEE HARVESTER
WON 10K CASH PRIZE AND GRABBED 5TH POSITION
AS BEST INNOVATIVE IDEA IN THE EVENT
MENTOR: SIDDESH KUMAR N M - ME
VIKAS C M - ME | RANJITH - ME | VANDANA M - ME
SHIVARUDRAYYA I DHARAWADMATH - EEE |SANJANA P K - ECE
YASHWANTH M - CSE | CHANDAN M - EEE|
MOHAMMAD SAAD PES HIGH SCHOOL | PRAVEEN V PES HIGH SCHOOL
HTTPS://PESCEMANDYA.ORG/ /PESCE1962 /PESCEMANDYA


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
Rank Band 151-200 in NIRF 2023
Rank Band 11-50 in NIRF Innovation 2023
Congratulations
Two Teams from PESCE
has been Qualified for the Top 32
Business Plans in FKCCI
15th Edition of MANTHAN-2023 Business Plan Presentation.
https://pescemandya.org /PESCE1962 /PESCEMANDYA

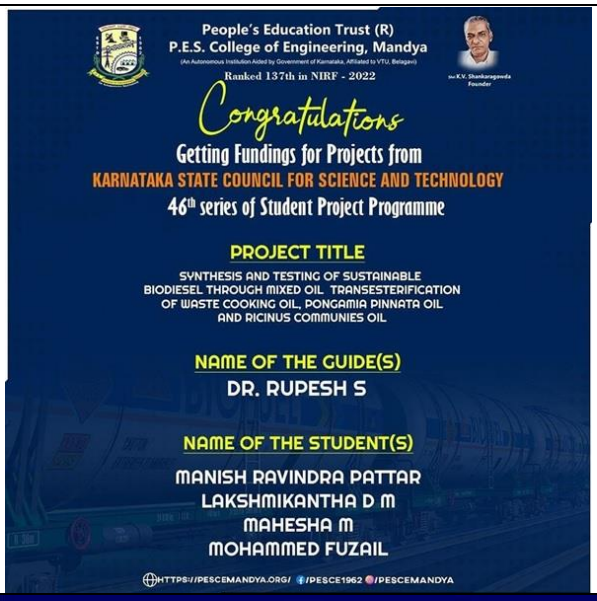

People's Education Trust (R)
P.E.S. College of Engineering, Mandya
Rank Band 151-200 in NIRF 2023
Rank Band 11-50 in NIRF Innovation 2023
Congratulations
Title: Conversion of Waste Paper
into Useful Creative Resources
Mentor: Siddesh Kumar N M
• Lakshmi Kiran C M
• Meghana S
• Vijetha B C
• Gowtham C K
Title: Tree Crawler
Mentor: Dr. S V ANIL KUMAR
• Ravi J Gowda
• Sumukh C
• Priyanka M K
• Yashwanth M
https://pescemandya.org /PESCE1962 /PESCEMANDYA


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
Rank Band 151-200 in NIRF 2023
Rank Band 11-50 in NIRF Innovation 2023
Our Students
Prathiksha Y from EC | Hemashree SS from IS
Sinchana KP from EC | Sanjana BM from EC
Pitch their idea on the topic
"Autonomous Virus Killing Robot"
@
W@W Empower-Enabling Women in
Workforce and Entrepreneurship
held at SJCE Mysore
https://pescemandya.org /PESCE1962 /PESCEMANDYA


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
Rank Band 151-200 in NIRF 2023
Rank Band 11-50 in NIRF Innovation 2023
Applauding
OUTSTANDING
ACHIEVEMENT
NISARGA R
6th semester student
Department of Computer Science and Engineering
has been selected as a
GOOGLE DEVELOPER STUDENT CLUB LEAD
PESCE
https://pescemandya.org /PESCE1962 /PESCEMANDYA


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
Rank Band 151-200 in NIRF 2023
Rank Band of 11-50 in NIRF Innovation 2023
INSTITUTION'S INNOVATION COUNCIL
Congratulations
Getting 15 lakhs Fundings
for Project from
Government of India Ministry of Micro,
Small & Medium Enterprises Incubation (MSME)
in the Event
MSME Hackathon 2.0 (Theme Based)


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
Rank Band 151-200 in NIRF 2023
Congratulations
Dheeraj Sharma - Jasbir Singh
Sudhanshu Sharma - Navjot Singh
First Year Students
Computer Science & Engineering Department
Selected for One month Internship @
IIT Bhubaneswar
INDIAN INSTITUTE OF TECHNOLOGY BHUBANESWAR
https://pescemandya.org /PESCE1962 /PESCEMANDYA


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
Ranked 137th in NIRF - 2022
Congratulations
Getting Fundings for Projects from
KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
46th series of Student Project Programme
PROJECT TITLE
SYNTHESIS AND TESTING OF SUSTAINABLE BIODIESEL THROUGH MIXED OIL TRANSESTERIFICATION OF WASTE COOKING OIL, PONGAMIA PINNATA OIL AND RICINUS COMMUNIES OIL
NAME OF THE GUIDE(S)
DR. RUPESH S
NAME OF THE STUDENT(S)
MANISH RAVINDRA PATTAR
LAKSHMIKANTHA D M
MAHESHA M
MOHAMMED FUZAIL
HTTPS://PESCEMANDYA.ORG/ /PESCE1962 /PESCEMANDYA


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
Congratulations
Students from Department of Civil Engineering
For Winning the 3rd Prize in the Event
BRIDGESCAPE
held on the occasion of
CREATIVITY AND INNOVATION DAY @ VVCE, Mysuru
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People's Education Trust (R)
P.E.S. College of Engineering, Mandya
Ranked 137th in NIRF - 2022
IEEE
Congratulations
SKANDA M K
Electronics and Communication Department
has been selected as the
Section Student Representative for IEEE Bangalore section
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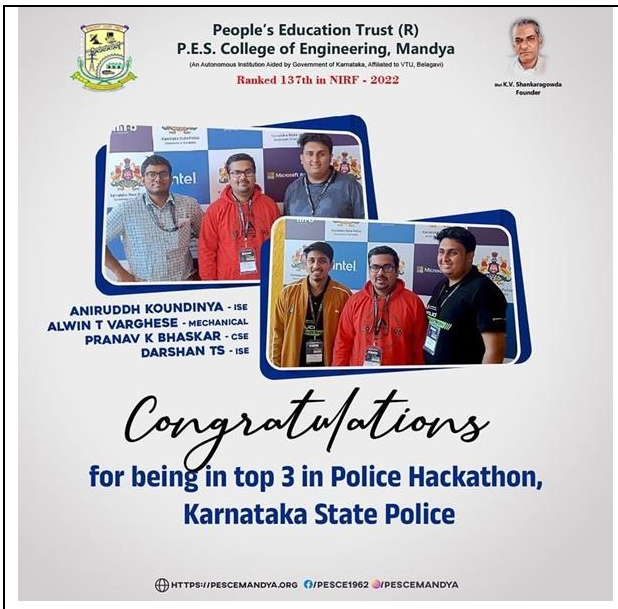
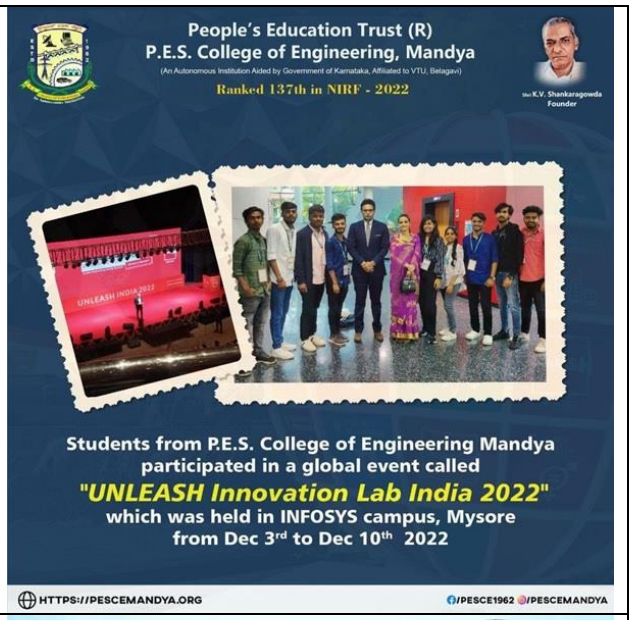

People's Education Trust (R)
P.E.S. College of Engineering, Mandya
(An Autonomous Institution Aided by Government of Karnataka, Affiliated to VTU, Belagavi)
Ranked 137th in NIRF - 2022
Shri K.V. Shankaragowda
Founder
ANIRUDDH KOUNDINYA - ISE
ALWIN T VARGHESE - MECHANICAL
PRANAV K BHASKAR - CSE
DARSHAN TS - ISE
Congratulations
for being in top 3 in Police Hackathon,
Karnataka State Police
HTTPS://PESCEMANDYA.ORG /PESCE1962 /PESCEMANDYA


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
(An Autonomous Institution Aided by Government of Karnataka, Affiliated to VTU, Belagavi)
Ranked 137th in NIRF - 2022
Shri K.V. Shankaragowda
Founder
Students from P.E.S. College of Engineering Mandya
participated in a global event called
"UNLEASH Innovation Lab India 2022"
which was held in INFOSYS campus, Mysore
from Dec 3rd to Dec 10th 2022
HTTPS://PESCEMANDYA.ORG
/PESCE1962 /PESCEMANDYA


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
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which was held in INFOSYS campus, Mysore
from Dec 3rd to Dec 10th 2022
HTTPS://PESCEMANDYA.ORG
/PESCE1962 /PESCEMANDYA


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
(An Autonomous Institution Aided by Government of Karnataka, Affiliated to VTU, Belagavi)
Rank Band 151-200 in NIRF 2023
Shri K.V. Shankaragowda
Founder
Congratulations
Ravi J Gowda | Priyanka M K | Sumukh C | Yashwanth M
4th Sem Students, Department of Computer Science and Engineering
Winning First Prize in the Event
INFOTHON
for the Project
Text2Flicks
Organized by Information Science and Engineering Department,
Vidyavardhaka College of Engineering, Mysuru
https://pescemandya.org /PESCE1962 /PESCEMANDYA


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
Rank Band 151-200 in NIRF 2023
Rank Band 11-50 in NIRF Innovation 2023
Shri K.V. Shankaragowda
Founder
Congratulations
Sumukh C & Priyanka M K
Students from Department of Computer Science & Engineering
Winning 3rd Prize in
National Level Software Hackathon-2k23
ADICHUNCHANAGIRI UNIVERSITY
BGS INSTITUTE OF TECHNOLOGY
@ BGS Institute Of Technology
https://pescemandya.org /PESCE1962 /PESCEMANDYA


People's Education Trust (R)
P.E.S. College of Engineering, Mandya
(An Autonomous Institution Aided by Government of Karnataka, Affiliated to VTU, Belagavi)
Ranked 137th in NIRF - 2022
Shri K.V. Shankaragowda
Founder
NIPAM
Institutions Innovation Council
and New age Incubation Network Organising
The Awareness Program Under NIPAM
(National Intellectual Property Awareness Mission)
An expert talk on
Intellectual Properties and
its Protection in India
by
Abhishek Singh
Examiner of Patents and Designs,
NIPAM-Officer, Patent Office, Intellectual Properties,
Date: Feb 16th
Venue: Placement Auditorium
HTTPS://PESCEMANDYA.ORG/ /PESCE1962 /PESCEMANDYA

ITEM-12	AICTE Activity Point Program

AICTE ACTIVITY POINT PROGRAMME

- Prepare and implement plan to create local job opportunities
- Prepare and implement plan to improve education quality in village
- Prepare an actionable DPR for Doubling the village Income
- Developing Sustainable Water Management system
- Prepare and improve a plan to improve health parameters of villagers
- Developing and implementing of Low-Cost Sanitation facilities
- Prepare and implement plan to promote Local Tourism through Innovative
- Implement/Develop Technology solutions which will improve quality of life
- Prepare and implement solution for energy conservation
- Prepare and implement plan to develop skills of village youth and provide employment

VTU GUIDELINES

Student admitted to the 4 years degree program shall earn minimum of following activity points:

- Regular students :100 points
- Lateral entry students :75 points

Students transferred from other universities to fifth semester

SWACHH BHARAT ABHIYAN

- Swachh Bharat Abhiyan is launched by the government of India to make India a clean and hygienic country

Ayushman Bharat Health Account Generation Activity

ITEM-13	Institutional Activities
13 (a)	Start of new program and intake enhancement from AY 2022-23

New emerging technology program with an intake of 60

The college started a new emerging technology program with Job potential in the field of Data Science. The said technology has started with a nomenclature **B.E. - Computer Science & Engineering [Data Science]** from the academic year 2023-24 with an intake of 60.

In addition to the above program the institute started a new program **B.E. – Computer Science & Business Systems** in collaboration with TCS from the academic year 2023-24 with an intake of 60.

ITEM-14	Extra – Curricular & Sports achievements for the AY 2022 - 23

PESCO-JNANA CAUVERY

As per the culture of P.E.S College of Engineering, Mandya every year we conduct **PESCE-JNANA CAUVERY.** In 2023, we have organized Jnana Cauvery 2023 with the same Enthusiasm and determination among new set of students, coordinators, student volunteers and faculty coordinators.

These fests are organized every year with objective to provide platform for students to showcase their talent with competitive spirit. The event was successful enough to attract as many people with included different events.

The event was organized for two days i.e. on 23rd and 24th May 2022 with all the events and programs organized by different departments. The newly designed PESCE-JNANA CAUVERY - 2023 Logo by changing the year.

PESCE-JNANA CAUVERY 2023, first day started with initial preparation like decorating the campus, then as day went on with the inaugural function. It was started at 6:30PM with the invocation song was sung by Mahima Bhat and Team. Then the guests were escorted to the stage. The Chief Guest was Shri K.S. Vijay Anand, President P.E.T ® and GC Chairman followed by our beloved Shri S.L Shiva Prasad, Secretary PET ®, Dr. R.M. Mahalinge Gowda, Principal and Prof. M.A.Venugopal Student Welfare Officer. Then guest was invited to light the lamp,

continued by welcome speech from Dr. R.M. Mahalinge Gowda. The prize distribution was conducted for the students who won the medals in different sports in different level. Felicitation to Shri K S Vijay Anand and Shri S.L Shiva Prasad then followed by the cultural events like Inter Departmental Dance Competition which was won by Civil Engg Dept. Second Place Mechanical Engg, Dept. and Third Place CS & Engg, Dept.,

EVENTS: DAY – 1

- Inauguration
- Fashion Show
- Band Night

DAY – 2

- Ethnic Day
- Inter Dept., Competition
- D J Night

SPORTS ACTIVITIES

INTRAMURAL/INTER DEPARTMENT COMPETITION:

The following events have been organized for the inter-department sports tournaments for students with the cooperation of staffs, students, sports representatives/secretaries from all the department/sections and the captains of various teams.

TEAM EVENTS: (STAFF AND STUDENTS)

Sl. No	Event Organized (Students and Staffs)	No. of Teams Participated	No. of Students Participated	Winner Department	Runner Department
01	Kho-Kho (Men)	08	80	ME	EC
	Kho –Kho (Women)	06	60	EEE	CV
02	Kabaddi (Men)	08	80	CV	ME
	Kabaddi (Women)	06	60	CV	EC
03	Basketball (Men & Women)	08	72	EC	CV
04	Volleyball (Men)	08	64	ME	AU
	Volleyball (Women)	04	32	CV	EC
05	Throwball (Women)	08	88	CV	EEE
	Tennis Doubles (Men & Women)	02	04	EC	CS/AIML
06	Chess (Online & Offline)	16	80	EC	CV
07	Cricket (Men & Women)	16	176	MC	CV
08	Football (Men & Women)	08	56	CV	EC

09	Hockey (Men & Women)	06	42	EC	CV
10	Handball (Men & Women)	08	72	MC	CV
11	Table Tennis (Men & Women	08	40	CV	EC
12	Badminton (Men & Women) (5 MEMBERS TEAM EVENT)	16	80	AU	EC
13	CARRAM (Men & Women) Doubles	16	36	CV	EEE
	SWIMMIN (MEN)	04	16	ME	CV
	SWIMMING (WOMEN)	04	04	CV	ME
Total Students Participated			= 1144		
- MAXIMUM 1122 STUDENTS ARE PARTICIPATED -					

INTRAMURAL/INTER DEPARTMENT COMPETITION:

The following events have been organized for the inter-department sports tournaments for students with the cooperation of staffs, students, sports representatives/secretaries from all the department/sections and the captains of various teams.

Inter Department Athletic Meet Result Sheet: (For Students)

Sl. No	Event Organized (Students and Staffs)	Men		Women	
		First Place	Second Place	First Place	Second Place
01	**100 Mts.**	CS	EC	EC	CV
02	**200 Mts.**	EC	EC	EE	EC
03	**400 Mts.**	EC	EE	EEE	ME
04	**800 Mts.**	EC	CV	MC	EC
05	**1500 Mts.**	EC	EC	EC	CV
06.	**4X100 Relay**	EC	CV	MC	CV
07.	**4X100 Mixed Relay (2 Men & 2 Women)**	MC	CV	CV	EC
08.	**Shot Put**	CV	EC	AU	EC
09.	**Discuss Throw**	AU	EC	CV	EEE
10.	**Javelin Throw**	CV	EEE	CS	EC
12.	**Long Jump**	CS	EC	ME	CS
13.	**Triple Jump**	ME	CS	EC	CV

CHAMPIONS OF INTER DPARTMENT SPORTS COMPETITON 2022-2023

Position	Name of the Department
WINNER	Department of Electronic and Communication Engineering
RUNNER	Department of Civil Engineering

EXTRAMURAL/INTER-COLLEGIATE COMPETITION:

From the beginning of session our college sports person of respective games (Cricket, Basketball, Kho-kho, Kabaddi, Hand ball, Volley ball, Football, Throw ball, Hockey, Swimming, Shuttle badminton, Table tennis, Chess, Ball –Badminton, Wrestling, Judo, Karate, Softball, Baseball and Athletics etc.) start their practice session and they work very hard for converting their sweat in winning trophies for the fame of our college.

Felicitation for the National Level Sports Participants by Hon'ble President Sri. K S Vijay Anand During Annual College Festival "Jnana Kaveri – 2022-23"

PESCE PROUD STUDETNS REPRESENTED VTU TEAM AT INTER UNIVERSITY SPORTS, STATE & NATIONAL COMPETITIONS 2022-2023			
Sl. No.	Name	Event/Team/Level of Competition /Venue /Date	Photo
01.	Bhoomika.H.L - 4PS19CS019 	Representation of University Badminton (Women) team in the South Zone Inter-University Championship – 2022-2023 held at Jain University, Bangalore on **21st to 24th November 2022.**	
02.	Ms. Akshatha Raju 4PS19EC008 	Representation of University Chess (Women) team in the South Zone Inter University Championship 2022-2023 held at Reva University, Bangalore from 15th to 18th December 2022.	
03.	Rakshith N 4PS21AU406 	Represented Karnataka Sate Cycle Polo (Men) team in the South Zone Cycle Polo Championship 2022-2023 Held at Hakkihebbalu, K R Pete, Karnatka on **11th to 14th Nov, 2022.** **Achieved second position and hold of Runners trophy.**	
		Represented Karnataka Sate Cycle Polo (Men) team in the National Level Cycle Polo Championship 2022-2023 Held at Hakkihebbalu, K R Pete, Karnatka on **23rd December 2022 to 2nd January 2023.**	

04.	Mr. Prithvi Gowda S S- 	Representation of University Aquatic (Men & Women) team in the All India Inter-University Championship – 2022-2023 held at University of Kalinga Inst. Of Social Science, Bhubaneswar (Odisha) on **26th to 29st December 2022**.	
05.	Mr. Karthik Gowda C, 4PS21CV030 	Represented Karnataka State Dodge Ball (Men) team in the Senior National Dodge ball Championship – 2022-2023 held at Hasan, Karnataka on 27th to 29th Dec. 2022 **Achieved First Position and take hold of Winners trophy**	
		Represented Mandya District Handball (Men) Club team from PESCE in the Open District Handball Championship 2022-2023 held at Kalburgi, Karnataka.	
06.	Ms. Kruthika M. 4PS19IS028 	Representation of University Volleyball (Women) team in the South Zone Inter-University Championship – 2022-2023 held at MG University, Kottayam (Kerala) on 27th to 31st December 2022.	
07.	Ms. Pannaga Shree 4PS20EC080 	Representation of Univerisity Volleyball (Women) team in the South Zone Inter-University Championship – 2022-2023 held at MG University, Kottayam (Kerala) on 27th to 31st December 2022.	

08.	Sriraksha A D 	Representation of University Ball Badminton (Women) team in the South Zone Inter-University Championship – 2022-2023 held at B. S. Abdur Rehman Crescent, Chennai on 27th -30th Jan 2023.	
09. 10. 11.	 **(Right to Left)** 1.Varun k 4PS22EE081 2.Chinthan Gowda H K-4PS19CV011 3.Karthik Gowda C - 4PS21CV030	Representation of VTU Hand Ball (Men) team in the South Zone Inter-University National Championship – 2022-2023 held at Periyar University Salem (Tamilnadu) on 6th & 8th February 2023.	
12.	 Punith. L 4PS21ME448	Represented the University Cricket (Men) Team in the South Zone Inter University National Championship – 2022-2023 held at REVA University Bangalore from 20th February to 3rd March 2023.	
13.	 Mr.Monish Aradhya (4PS19IP007)	Represented The Royal Mysuru Sailing Club (Men) Team and participation in the National Level "Inland Enterprise Championship (IEC) 2023 Conducted by the Youting Association of India (YAI) held at Kadakvasla Lake, Pune on 5th to 9th June 2023 and has secured 72 rank in India in Sailing	

OUR COLLEGE TEAMS WON THE TROPHIES/MEDALS AND BROUGHT LAURELS TO THE INSTITUTION - 2022-2023				
Sl. No.	**Events**	**Name of the Players**	**Result/Venue/Date**	**Document/Photo**
01	**Badminton (Men)**	Vivek.H - 4PS20CV102 Lakshmish.R - 4PS19CS046 Arun Readdy.K - PS20ME010 Sagar.K - 4PS20AU407 Thilak gowda.G - 4PS19ME118	**Runners** in VTU Mysore Zone Championship 2022-2023 held at VVCE, Mysuru on 3rd and 4th November 2022. **Participated** in State Level VTU Championship held at BMSCE, Bangalore on 8th and 9th November 2022.	
02	**Badminton(Women)**	Bhoomika.H.L - 4PS19CS019 Nikitha nelcy pinto - 4PS20CS066 Sowrabha S - 4PS20CS100 Shreya Barboza - 4PS21CS093 Yashika M S - 4PS21CS126	**Winners** in VTU Mysore Zone Championship 2022-2023 held at VVCE, Mysuru on 3rd and 4th November 2022. **Fourth Place** in State Level VTU Championship held at BMSCE, Bangalore on 8th and 9th November 2022.	
03	**Table Tennis(Women)**	Jyothi Ram - 4PS19IS025 Jyothika S - 4PS19CV033 M S Devika - 4PS21ME031 Harshitha N - 4PS21ME022 Shreya Barboza - 4PS21CS093	**Winners** in VTU Mysuru Division Championship 2022-2023 held at VVCE, Mysuru on 2rd and 3rd November 2022. **Participated** in VTU State Level Championship held at VVCE, Mysuru on 21st and 22nd November 2021.	
04	**Chess (Women)**	NEHA ANANTH K- 4PS19EC092 NAGASWATHI S - 4PS20EC074 KUSUMITA S - 4PS20CS048	**Runners** in VTU Rest of Bangalore Division Chess Championship 2022-2023 held at VTU Regional Centre, Mysuru on 1st and 2nd December 2022.	

		AKANSHA - 4PS21IS005 AKSHATHA RAJU - 4PS19EC008	**Runners** in the **VTU** State Level chess Championship 2022-2023 held at NMAIT, NITTE, Karkala on 5th & 6th December 2022.	
05	**Chess (Men)**	Harish D - 4PS19ME048 Fabian Lalawmpuia - 4PS19EC042 Sagar P -4PS19AU016 DHANANJAY - 4PS20EC029 Manuprasad K S - 4PS20EC067 Pranav K Bhaskar - 4PS20CS080	**4th Position** in VTU Rest of Bangalore Division Chess Championship 2022-2023 held at VTU Regional Centre, Mysuru on 1st and 2nd December 2022. **Participated** State Level chess Championship 2022-2023 held at NMAIT, NITTE, Karkala on 5th & 6th December 2022.	
06	**Basket Ball (Men)**	Uday Kiran M G - 4PS19EC161 Chinthan Gowda Hk - 4PS19CV011 Aryan Kumar Sathnur - 4PS19ME020 Prajwal C - 4PS18EC067 Lalrinngheta - 4PS18CS049 Yashas Raj B R - 4PS21EC160 Michacl Vanlalhriatpuia - 4PSI9CS053 Tejas Hs - 4PS19EEE050 Bipin Chandra Sagars - SEM/IS Likith Raj H.E - 4PS211IS031 Prajwal S Shetty - 1HSEM/EC Prajwal RM - TSEM/CV	**Runners** in VTU Mysore Zone competition held at NIE, Mysore on 28th and 29th November 2022 **Participated** in State Level VTU Inter Zone Competition held at GMIT, Davanagere on 19th20th December 2022.	 

ANNEXURE - I

Proceedings of BOS Meeting - UG for the Academic Year 2023-2024

Department of Automobile Engineering

Proceeding of the BOS meeting Held on 01/07/2023

Agenda:

Finalizing the syllabus for V and VI semester for NEP-21 Scheme for AY-2022-2023.

Members of BOS present,

Internal BOS Members:	**External BOS Members:**
Dr. B.Dinesh Prabhu	**Dr. A N Basavaraju**
Dr. N Jagadeesha	Professor,
Sri. Srikanth G D	Dept. of Automobile Engineering, MCE Hassan
Sri. Akshay R N	**Dr. M.K Ravishankar.**
Sri. Anand Raj S	Professor,
	Dept. of Automobile Engineering,
	MCE Hassan.

The meeting started with introducing of all panel members, greeting and welcome speech by

Dr. B Dinesh Prabhu, BOS chairperson and Head of Automobile Engineering

The following recommendations /Suggestion were made based on the discussion from BOS panel members.

1. To conduct 04 hours of class for numerical subjects having 03 credits that is 02 hrs for theory and 02 hrs for tutorial hence L:T:P:H could be **2:2:0:4**
2. To verify the course articulation matrix assigned with blooms levels and review the same.
3. To rearrange the CO's for subjects according to the blooms level in ascending order.
4. In the subject of **Battery Technology and Charging Infrastructure** [P21AU6034] to include content related to electric vehicles in module 1.
5. In the subject of **Electric Vehicles, Battery Technology and Charging Infrastructure** [P21AUO6052], review the course content.

The BOS meeting was concluded with vote of thanks by HOD of Automobile Engineering Department.

Department of Civil Engineering

The meeting was held at Civil Engineering Department, P.E.S.C.E, Mandya on 13th June, 2023.

BoS Members present:

1. Dr. H. S. Narasimhan	MCE, Hassan
2. Dr. Balaji N C	NIE, Mysuru
3. Dr. S M Shivanagendra	IIT, Madras (Attended online via Google meet)
4. Mr. Nagesh P	Ultratech Cements Limited
5. Mr. Sharath H P	SJCE, Mysuru
6. Dr. T. M. Prakash	CED, PESCE, Mandya
7. Dr. B. S. Jayashankar Babu	CED, PESCE, Mandya
8. Dr. D. S. Sandeep Kumar	CED, PESCE, Mandya
9. Dr. H. C. Chowdegowda	CED, PESCE, Mandya
10. Dr. S. Poorna Prajna	CED, PESCE, Mandya

Minutes of meeting of BoS (U.G.) held on 13-06-2023:

Dr. T. M. Prakash welcomed the members and briefed about aim, advantages and other issues of attaining BoS meeting. The following suggestions were made by the above panel members in framing the NEP Scheme of V and VI semester.

Mr. Nagesh P suggested to include:

1) Signalling, Kavach (Indian Railway Safety System) & maintenance in self-study component of unit-1 (P21CV5032).
2) Flexural strength of PQC in practical topics of unit-5 (Demonstration only) (P21CV504).
3) Amplification equipments in self-study component of unit-3 (P21CVO6051).
4) Design of Retaining walls as unit-5 (P21CV6021).
5) Deign of Concrete overlay (white topping) in self-study component of unit-5 (P21CV6032).
6) Rename “Engineering Ground Modification” as “Engineered Ground Improvement” in unit-1 (P21CV6033).
7) Thermal methods of stabilization in unit-4 (P21CV6033).
8) Study of commercially available product brochures in self-study component of unit-4 (P21CV6033).
9) Safe Bearing Capacity (SBC) concept in unit-4 (P21CV604).
10) Standard Penetration Test (SPT) – (Demonstration only) in practical topics of unit-5 (P21CV604).

11) Pavers in unit-4 (P21CV6022).
12) Modify unit-2 title as "Seismo-Resistant Buildings and Detailing of Masonry structures" (P21CV6031).
13) Earthquake Resistant Detailing of Masonry Structures in unit-2 (P21CV6031).
14) Effect of structural irregularities in unit-1 (P21CV6031).

Dr. T M Prakash suggested to include:

1) Crash time estimate in PERT (P21CV501).
2) Autoclave Aerated concrete block as self-study component in unit-1 (P21CV5033).
3) Foundation details in self study component of unit-3 (P21CV6021).

Dr. H S Narasimhan suggested to include:

1) Number of indeterminacy ≤ 3, in all units (P21CV5031).
2) Direct Stiffness Method-Trusses and Beams in unit-4 (P21CV5031).
3) Direct Stiffness Method for frames and storage techniques in unit-5 (P21CV5031).
4) Bituminous Mix design (Marshall Method) in practical topics of unit-5 (demonstration only) (P21CV504).
5) Design principles in earthen dams in unit-2 (P21CV6024).

Dr. Balaji suggested to include:

1) Mention the topics in design of horizontal alignment such as super elevation, extra widening, and transition curve in unit-2 (P21CV504).
2) Rename Arc-GIS as Q-GIS in Part-B (P21CVL506).
3) Noise control equipments, elevators and escalator in unit-4 (P21CVO6051).
4) Industrial vents and ventilation systems in self study component of unit-1 (P21CVO6051).
5) IITK- BMTPC Earthquake Tips as self-study component in unit-2 (P21CV6031).

Dr. B S Jayashankar Babu suggested to:

1) Design concept of column splices for columns of same sections only, in unit-4 (P21CV601).
2) Design concept of column splices for columns of different sections, self study component in unit-4 (P21CV601).
3) Modify "Plastic Analysis and Design of Beams" as "Design of Beams and Plastic Analysis" in unit-5 (P21CV601).
4) Beam types and splicing in beams in unit-5 (P21CV601).
5) Laterally unsupported beams as self study component in unit-5 (P21CV601).

Dr. H. C. Chowdegowda suggested to:

1) CPWD handbook in self study component (P21CV504).
2) Design concepts of open well stairs as self-study component in unit-4 (P21CV502).
3) Pavement Quality Concrete (PQC) in unit-3 (P21CV504).

Dr. D. S. Sandeep Kumar suggested to:

1) Calculation of deflection in self study component in unit-2. (P21CV502).
2) Limit state of collapse of flanged section from unit-2 to unit-1 (P21CV502).
3) Introduction to slabs and stairs in unit-4 (P21CV502).

Dr. S M Shivanagendhra suggested to:

1) Include NPTEL lectures related to course (P21CV6024).
2) Specify the environmental cycle in self-study component of unit-1 (P21CVO5053).
3) Include design procedures for different treatment methods of solid waste or accordingly revise the Course Outcome-3 (P21CV5034).

Mr Sharath H P suggested to:

1) Design of folded plate stairs in unit-4 (P21CV502).
2) Design of pedestals in footing, introduction to combined footing as self-study component in unit-4 (P21CV502).

Dr. S. Poorna Prajna suggested to:

1) To include IRC and MoRTH guidelines for aggregate shape test (P21CV504).
2) Perform viscosity test on bitumen using Brookefield viscometer (P21CV504).

After long deliberations and discussions, following resolutions were made,

1. As per NEP scheme, the syllabus for various subjects were altered with improvisations.
2. Suggested to implement mini project for all semester students.
3. Finalised the syllabus of V and VI semester NEP P21 scheme.
4. Syllabus for B.E. - P22 scheme (III to VI semester) is retained same as B.E. - P21 scheme (III to VI semester).

Department of Computer Science & Engineering

Proceedings of BOS (UG) Meeting held on 16-08-2023

Agenda :

To discuss and approve the scheme and syllabus, B.E. (CS & E) of :

1. 2021 scheme (5th and 6th semester)
2. 2022 scheme (3rd and 4th semester)

BOS meeting (Department of CS & E) of UG Board was held on 16th August 2023 at 10.30 AM in the Department of Computer Science & Engineering to discuss and approve the scheme and syllabus of 2021 scheme (5th and 6th semester) and 2022 scheme (3rd and 4th semester) B.E. (CS & E) subjects. Dr.Nagarathna, Professor & HOD was the chairperson.

At the outset, Dr.Nagarathna, Chairperson (BOS UG), welcomed the external and internal members to the meeting. The entire syllabi of all 5th and 6th semesters were presented by the concerned faculty members. The agenda (as above) was discussed in the meeting elaborately. The suggestions given by external members have been listed and enclosed within the same. It was decided to retain the syllabus of 2021 scheme (3rd and 4th semester) for 2022 scheme (3rd and 4th semester) and was approved in the meeting. Finally, Dr.Nagarathna, Chairperson (BOS UG), concluded the meeting by thanking all the members present in the meeting for their valuable suggestions.

(Dr.Nagarathna)
Professor & Chairperson BOS (UG)
Department of CS & E

2021 Scheme (5th and 6th Semester)

Subject: Suggestions reported by external BOS members regarding the syllabus framing for 5th and 6th semester subjects of NEP Scheme.

Dr.M.Indiramma (Subject experts from outside the college)
Professor & HOD
Department of AI & DS,
B.M.S. College of Engineering,
Bull Temple Road, Bengaluru

5th Semester

1. Software Engineering:

- Make students to use agile models in their final year project

2. Computer Networks:

- Mention author name
- Lab : Include UDP IN laboratory
  : Add one more question on UDP
- In Part-A "application layer" is missing like https, ftp

3. Operating System:

- Check the publication,
- Device drivers (demonstration) in the lab.

4. Computer Graphics and visualization:

- CO5 → Make it to design.

5. Cloud computing platform:

- Change keywords in CO's level,
- Make sure that students opt this subject
- Virtualization: Include full and para virtualization. Give AWS Azure for selfstudy. Can include Cassandra, mangoDB, Follow only one model platform like AWS.

6. Artificial Intelligence:

- The concepts from first, second and third unit to be given as practical assignment.

7. Open Elective- AI:

- Change the text book,
- Let the syllabus match the current AI.
- Change unit-2, unit-3, remove expert, fuzzy, genetic algorithm

8. Python Programming:

- Introduce of OOPs concepts.

6th Semester

1. Data Analytics:

- Include excel sheet for analysis for praticals.
- Make the students to the practical assignment using tools like PowerBI, Spss.

2. Computer Architecture: T. Algorithm not needed

3. Blockchain : Practical component, club unit-2 and unit-3

4. Network Management: Remove case history. MIB (include), RFC application, remote desktops, telnet architecture and management protocol.

   Demonstration of how to use protocols in application layer

5. Software Testing: Include

   - Qualitative metrics of software testing
   - Explain, the need for testing, how testing happen in different phases
   - Make the students to do the assignment using different testing tools

6. Soft Computing:

   - Include gradient descent concepts and its variants in unit-3.
   - Include evolutionary algorithms in unit-1to explain the transition from traditional to present.
   - Include case study to explain fuzzification and defuzzification

7. Unix System Programming:

   - Commands in unit-1 to be given as assignment

8. DevOp's

   - Include practical component

9. Pervasive Computing:

   - Include server side programming-PHP, RUBY on Rails

10. Service Oriented Architecture:

    - Include background protocols.

11. Web Programming:

    - Include content development introduction.

Dr. K.Raghuveer (Subject experts from outside the college)
Professor,
Dept. of IS & E,
National Institute of Engineering,
Mananthavady Road,
Mysuru 570008

Include more practical concepts wherever possible.

Natesh Plahalli (Representative from Industry/Corporate sector)
Program Manager,
DXC Technology, (Formerly Hewlett Pacicorsd Euterpuse)
Bengaluru.

Please include the below topics for your curriculum:

Python, Golang, Data Science, AI, ML, LLM (Large Language Model), Generative AI (Chat GPT), Introduction to Cloud Computing, CI/CD Containers and Kubernetes

Agile and Devops are very much required.

Dr. Anasuya M.A. (Post Graduate Meritorious alumnus)
Associate Professor
Dept of CS & E,
JSSSTU,
Mysuru - 570006.

5th Semester

- Add new updated text book and add author to the 2nd reference in the subject Operating System
- Push the subject Cloud Computing to core course if possible. Inclusion of Service Oriented Architecture in to Cloud Computing course
- In Artificial Intelligence course of open elective think to retain Fuzzy Systems and GA.
- Suggested to restructure the fundamental of Artificial Intelligence course
- High light the concepts of OOPs and JAVA in 4th module of the Python programming – An Introduction.

6th Semester

1. SSPS, Power BI, tools can be used to visualize the data analysis techniques.
2. Suggested to drop tomasulo approach in Computer Architecture course.
3. Discuss the way of execution of syllabus of Computer Architecture course.
4. Introduce Software metrics to Software Testing course.
5. Fuzzy ANN algorithm can be a case study.
6. Think for applying the concepts of Perl, CGI. Etc concepts in pervasive computing.
7. Change the title to Web Technologies.

Chairperson, BOS (UG),
Department of CS & E,
PESCE, Mandya.

Department of Electronics & Communication Engineering

Proceedings of the Board of Studies (Under Graduate)

Meeting held on 11-07-2023 in the Department of E and C Engineering, PESCE, Mandya.
Venue: **Self Learning Lab**, Time: **11 AM**

Member present

Sl no	Name	Role	Sl no	Name	Role
1	Dr M.J.Anand, Associate Professor and HOD	Chairman	7	M.Subramanya, Associate Prof, PESCE	Expert member (internal)
2	Dr. S B RudraSwamy Associate Professor Dept. of E&C Engg. SJCE. Mysore	Expert member (external)	8	Dr.B S Nanda, Associate prof, PESCE	Expert member (internal)
3	Dr K R Sudhindra Associate Prof in E &C Engg, BMS College of Engg, Bangalore	Expert member (external)	9	Dr. Mahesh Koti, Asst Prof, PESCE	Expert member (internal)
4	Dr. Dinesha P Professor, Dept, of ECE Dayanandasagar College of Engineering, Bangalore-570078	Expert member (external, nominated by VC)	10	Mr. Kumar N Krishnamurthy, Asst Prof, PESCE	Expert member (internal)
5	Dr. Srikanth T Project Manager L & T Technology Services, Mysore	Expert member (Industry)	11	Ashraya N Asst Prof, PESCE	Expert member (internal)
6	Dr. Shashidhar H R Associate Professor, Dept. of E&C Engg.NIE, Mysore	Expert member (Alumni)	12	Dr.Apurba Das, chief Architect, Head Cognitive AI(IoT & DE),TCS, Bangalore	Expert member (Industry)

Dr M. J. Ananda, Chairman BoS (UG-E and C) welcomed all the BoS members. He also introduced all the members to the board. One of the members who were industry experts was unable to join the meeting online.
Chairman started the meeting by reading the agenda of the meeting.
Agenda:

1. Approval of 5th and 6th Scheme's syllabus of P21 Scheme (NEP2020).
2. Approval of P22 Scheme and syllabus of 3rd to 4th Semesters (NEP2020).

Agenda 1: Approval of 5th and 6th Scheme's syllabus of P21 Scheme (NEP2020)

Dr Dinesha P and Dr K R Sudindhra suggested the following changes in the subject Digital CMOS VLSI Design
Shift 3rd and 4th unit and vice versa and also suggested to include textbook by Pucknell

Dr. Srikanth T suggested the following for the subject Fundamentals of object oriented Language and Database Concepts
Add the topics of how to build software/executable in Unit-1. (Relevant to the subject)

Dr Dinesha P and Dr Shashidhar H R Sudindhra enquired about the following in the subject System Verilog
Assertions missing, Where verifications used? In Unit-1 provide hands on instead of giving assignment-2.

Dr. Srikanth T suggested the following for the subject Digital Signal Processing
Check Zoom FFT in Unit-2., Keep only 2 filters in unit-3., Remove Kaiser., Realisation of IIR and FIR., FIR filter keep only 2., Application specific in unit-5, Check text book from author Tarun Kumar.

Dr K R Sudindhra enquired about the following in the subject E-Waste management
Check EST STD in text book. Question framing techniques

Dr. Srikanth T and Dr. S B Rudra Swamy suggested the following for the subject IoT and Sensors
Change the subject name to 'Sensors and IOT'.

Dr K R Sudindhra suggested the following for the subject DSP Processor and Applications
Be specific on naming of DSP Processor from TMS320C54XX to TMS320C6713.
Dr Shashidhar suggested the following for the subject Embedded Systems
To Check Target Hardware for debugging.

Dr Shashidhar suggested the following for the subject Operating systems
Try to fit as core course, Keep Scheduling concepts replacing threats in unit-5.

During the discussion of the subject Control systems, members suggested to move it to 5th semester and move DIP to 6th Semester
For the subject AI and ML in VLSI, members suggested few changes in Unit-2 and 3

With respect to Analog and Digital VLSI Design Laboratory Dr. S B RudraSwamy suggested interchanging Analog and Digital experiments.
Keep Digital VLSI in Part-A and Keep Analog VLSI in Part-B

Dr. S B RudraSwamy enquired about self-study courses and open electives and External BOS members suggested adding Pre-requisite to select open elective subject.

HoD mentioned that only NPTEL/SWAYAM online courses are considered.
He also mentioned that students are encouraged to register to the online courses as early as possible.

Approval of 5th and 6th Scheme and syllabus of P21 Scheme (NEP2020)

Table I. BoS Panel Review Comments

Scheme and Syllabus was read by Dr. M. J. Anand, Chairman, BOS(UG)

Following are the changes/suggestions discussed for scheme and syllabus of 5th and 6th semester in External BOS meeting held on 11/07/2023.

Sl No.	Course Code	Course Title	Remarks: Comments, Suggestions	Action to be taken
1.	P21EC501	Innovation, Entrepreneurship and Management	Approved	Accepted the course as is
2.	P21EC502	Digital CMOS VLSI Design	Shift 3rd to 4th Unit and vice versa. Text book Pucknell and Moore.	Suggestions are considered After update accepted the course as is
3.	P21EC5031	Fundamentals of object oriented Language and Database Concepts	Add the topics of how to build software/executable in Unit-1. (relevant to the subject)	Suggestions are considered Accepted the course as is
4.	P21EC5032	System Verilog	Assertions missing. Where verifications used? In Unit-1 Give Hands on instead of giving assignment-2.	Suggestions are considered After update accepted the course as is
5.	P21EC5033	Digital Image Processing	Remove '?' in Unit-1.	Editing is done
6.	P21EC504	Digital Signal Processing	Check Zoom FFT in Unit-2. Keep only 2 filters in unit-3. Remove Kaiser. Realisation of IIR and FIR. FIR filter keep only 2. Application specific in unit-5. Keep text book from author Tarun Kumar.	Suggestions are considered After update accepted the course as is

7.	P21EC5051	E-Waste Management	Check EST STD in text book.	Suggestions are considered After update accepted the course as is
8.	P21ECO5052	Principles of Communication Systems	Approved	Accepted the course as is
9.	P21ECO5053	Biometrics	Approved	Accepted the course as is
10.	P21ECO5054	IoT and Sensors	Change subject name to 'Sensors and IOT'.	Suggestions are considered After update accepted the course as is
11.	P21ECL506	Circuit Simulation Laboratory	Approved	Accepted the course as is
12.	P21EC61	Analog CMOS VLSI Design	Approved	Accepted the course as is
13.	P21EC6021	ITC and Multimedia Communications	Approved	Accepted the course as is
14.	P21EC6022	DSP Processor and Applications	Be specific on naming from TMS320C54XX to TMS320C6713.	Suggestions are considered After update accepted the course as is
15.	P21EC6023	Embedded Systems	Check Target Hardware for debugging.	
16.	P21EC6024	Operating Systems	Try to fit as core course. Keep Scheduling concepts replacing threats in unit-5.	Suggestions are considered After update accepted the course as is
17.	P21EC6031	Computer Organization	Approved	Accepted the course as is

18.	P21EC6032	Control Systems	Move the subject DIP to 6th semester. Move Control Systems to 5th semester.	Suggestions are considered After update accepted the course as is
19.	P21EC6033	Design for Testability	Approved	Accepted the course as is
20.	P21EC6034	Artificial Intelligence and Machine Learning in VLSI	Few changes in unit-2 and 3.	Suggestions are considered After update accepted the course as is
21.	P21EC604	Microwaves and Antennas	Approved	Accepted the course as is
22.	P21ECO6051	Electronic Instrumentation	Approved	Accepted the course as is
23.	P21ECO6052	Introduction to Embedded Systems	Approved	Accepted the course as is
24.	P21ECO6053	Introduction to Image Processing	Approved	Accepted the course as is
25.	P21ECO6054	Automotive Electronics	Approved	Accepted the course as is
26.	P21ECL606	Analog and Digital VLSI Design Laboratory	Keep Digital VLSI in Part-A Keep Analog VLSI in Part-B	Suggestions are considered Accepted the course as is

Agenda 2: Approval of P22 Scheme and syllabus of 3rd to 4th Semesters (NEP2020)

As per the guidelines from the Dean Academics, Scheme and syllabus of 3rd to 4th Semesters of P21 Scheme (NEP2020) is retained for P22 Scheme and BOS(UG) members approved the same

The panel meeting was concluded with an overall summary read by Dr M. J. Anand, Chairman, BoS, stating the suggestions and comments to be taken for implementation with revision of the scheme and course contents. Chairman BoS thanked all the BoS members for their valuable time and valid suggestions.

Department of Electrical & Electronics Engineering

Proceedings of Board of Studies meeting of Department of Electrical & Electronics Engineering held on 08-07-2023.

Sub: Approval of 5th and 6th Semester P21 NEP Syllabus

Dr. Mahesh Kumar K M, Head of the Department and Chairman, Board of Studies welcomed the all the members of Electrical & Electronics Engineering Board of studies member to discuss and approval of P21 NEP Syllabus (5th and 6th semester).

The distinguished members of the board have gone through the scheme and syllabus of 5th and 6th semester P21 Scheme. After detailed constructive discussion and deliberations, the board members have approved the syllabi for various courses of 5th and 6th semester for the academic year 2023-24.

At the end of the session, Mr. Sunil Kumar C Assistant Professor of the host institute has expressed gratitude to all the members for their critical and constructive views for the course.

Department of Industrial & Production Engineering

The following points were discussed during the BOS meeting which is held on 13th July 2023 to approve the syllabi of 5th and 6th Semester which is to be implemented for the students admitted during 2020-2021 batch (P21 Scheme).

1. All the BOS External members suggested to minimize the syllabus as per the hours of teaching and credits.

   Action Taken: As per the instructions from the Dean Academics the syllabus has been incorporated and modified to 40 hours.

2. New edition textbooks and ISSB Numbers for reference books was suggested to include.

   Action Taken: As per the suggestions from the committee members we have updated the new edition and ISSB Number for the reference books of corresponding courses.

3. SWAYAM Subject should be selected by the Faculty apart from the Subjects Studied in their Curriculum.

   Action Taken: It's already in practice.

4. Internships should be carried out related to recent technologies adopted in Industries.

   Action Taken: We instruct to the students to undergo Internship in Recent technologies in Industries and take the approval from the respective Mentor's and HOD before going to pursue Internship.

5th SEM

1. **P21IP501-Management & Entrepreneurship:** Dr. Srinath MS, MCE, Hassan suggested to include women entrepreneur in Unit –III.
   Action Taken: As per the committee suggestion, we have included **Women Entrepreneurship** in UNIT-III

2. **P21IP5031-Elective Composite Materials:** Dr. H N Diwakar, NIE Mysore suggested to Add Advance composite Materials in UNIT-1.
   Dr. C S Anand, ADA Proposed to Add little bit About Micro Analysis of Lamina in Unit-3.
   Dr. Srinath MS, MCE, Hassan advised to add Introduction to Autoclave in Unit-4.

Action Taken: As per the suggestions from the committee members we incorporated their suggestions as follows.

i. Advance composite Materials in UNIT-1 has been added.
ii. Introduction to Autoclave in Unit-4 has been added.
iii. Since it is a 3 Credit Elective Course Micro Analysis of Lamina Cannot be added to Unit-3.

3. **P21IP5033 Elective Computer Integrated Manufacturing:** Dr. Srinath MS, MCE, Hassan advised to Rename the Course title to CIM & Automation and also recommended to reduce Portions in Unit-2.
   Dr. C S Anand, ADA, insist to Add Industrial 4.0 in Unit 4 or Unit5.
   Action Taken: As per the suggestions from the committee members we incorporated their suggestions as follows.

   i. Remodified the syllabus in Unit – 2.

4. **P21IP5034 Modern Machining Method:** Dr. C S Anand, ADA, suggested to Add Hydraulic Machine, Addictive manufacturing Technique, 3D Printing & Cryogenic Machining to the subject.
   Action Taken: As per the suggestions from the committee members we incorporated their suggestions as follows.

a. Students are studying the Hydraulic machines concept in Hydraulic and Pneumatics course – **P21IP7XX.**
b. Students are studying the concepts of Addictive manufacturing Technique, 3D Printing in Additive Manufacturing Course – **P21IP702.**

5. **P21IP504 Work Study & Ergonomics:** Dr. Srinath MS, MCE, Hassan advised to add Virtual Ergonomics to the Unit –V.
   Dr. H N Diwakar, NIE Mysore, insist to add some topics of Advance Industrial Engineering Management to the Subject.
   Action Taken: Syllabus is already consisting of 40 hours and hence it's not possible to incorporate Virtual Ergonomics and Advanced Engineering Management to the subject.

6. **P21IP5051 Principle of Marketing:** Dr. Savitha M, SJCE, Mysore, suggest to Add Digital Marketing Introduction either in Unit IV & V.
   Action Taken: As per the committee suggestion, we have included Digital or E-Marketing in Unit V.

7. **P21IP5052: Control Engineering & Machining Tool Drive:** Dr. C S Anand, ADA, suggested to add some topics related to MAT LAB .
   Action Taken: Syllabus is already consisting of 40 hours and hence MAT LAB Concepts cannot be added.

8. **P21IP5054 Plant Layout & Design:** Dr. Srinath MS, MCE, Hassan and Dr. H N Diwakar, NIE Mysore insist to add Computer Integrated PLD to the Subject.
   Action Taken: As per the committee recommendation, the concept of Computer Integrated PLD have been introduced in the Unit-5 in the course.

6th SEM

1. **P21IP604 CAD/CAM:** Dr. H N Diwakar, NIE Mysore and Dr. Savitha M, SJCE, Mysore insist to Add CNC Centre to the Subject by Shifting CNC Program to lab.
   Dr. Srinath MS, MCE, Hassan and Dr. H N Diwakar, NIE Mysore, suggest to add Programming of Drilling to the Integrated Lab. Also suggested to add Digital Manufacturing.
   Action Taken: As per the suggestions from the committee members we incorporated their suggestions as follows.
   - CNC Machine Tools has been added in Unit IV in P21IP604 CAD/CAM.
   - CNC Drilling Programme is introduced in P21IPL604.

2. **P21IP6051 JIT:** Dr. H N Diwakar, NIE Mysore and Dr. Savitha M, SJCE, Mysore insist to reduce the Syllabus and suggested to add Artificial intelligence to the Subject.
   Action Taken: As per the suggestions from the committee members the syllabus have been reduced. But AI cannot be added as it is a 3 Credit Course.

3. **P21IP6053 Project Management:** Dr. C S Anand, ADA, insist to Add Introduction to Risk management to the Subject.
   Action Taken: Syllabus is already consisting of 40 hours and hence it's not possible to incorporate Risk Management to the subject.

Department of Information Science & Engineering

SUGGESTIONS REPORTED BY EXTERNAL BOS MEMBERS REGARDING THE SYLLABUS FRAMING FOR 5TH AND 6TH SEMESTER SUBJECTS OF NEP P21 SCHEME

Dr.Geetha Kiran
Professor
Dept of CS&E
MCE,Hassan

1. Include ability enhancement courses, preferably practical oriented
2. Suggest a Bucket of ability enhancement courses, where the students can choose any one of them
3. Include value added courses in non-credit courses to improve the skills of the students with the current trend
4. Include mini project/activities in most of the courses for evaluation rather than regular writing test
5. Frame course outcomes with the intention of getting outcome for the course, not unit wise
6. Evaluation scheme could be more of activity
7. Pre-requisition of the course has to be thought as a bridge course prior to the semester, so as to bridge the course gap
8. Course outcomes have to be redefined/revisited
9. Introduce scenario based problems for laboratory.

SUGGESTIONS REPORTED BY EXTERNAL BOS MEMBERS REGARDING THE SYLLABUS FRAMING FOR 5TH AND 6TH SEMESTER SUBJECTS OF NEP P21 SCHEME

Dr. Devaki P
Professor
Dept of CSE
NIE,Mysore

1. Refer the VTU notification regarding CIE & SEE (2021-22 and 2022-23 scheme)
2. For Software Engineering & management: action verbs of CO's need to be redefined independent to modules/units and include latest version of textbook
3. For Computer Networks: unit 3 and 4 labels to be redefined
4. PO's and PSO's are not mapped for few courses
5. Suggested to replace C# with some core course (instead of language)

SUGGESTIONS REPORTED BY EXTERNAL BOS MEMBERS REGARDING THE SYLLABUS FRAMING FOR 5TH AND 6TH SEMESTER SUBJECTS OF NEP P21 SCHEME

Manojna
CISCO
9008013228

Software Engineering & Project management

- Discuss scrum, Agile, daily standup meetings, sprint planning, writing/tracking user stories
- Discuss resource planning/management and tools used for project management
- Highlight phases of software development and testing(requirement analysis, Design, Develop, test and Deploy)

Computer Networks

- Discuss and compare OSI layer with TCP/IP
- Visit of information at each layer(frame, packet, datagram/segment)
- Discuss and contrast routing and switching addressing concepts in routing & switching (IP address v/s MAC address)
- Compare IPv4 v/s Ipv6

JAVA & J2EE

- Highlight OOPS in contrast to Java
- Compare Java with C++
- Discuss major Java packages(J2EE,JDBC, CGI, servlets and JS)

Robotic Process Automation

- Importance of automation and its applications to the nature of tasks
- What is the significance/need of the word “robotic” in the course name ?

Computer graphics with OpenGL

- Compare Raster v/s Vector graphics
- Discuss typeset fonts, anti-aliasing
- Discuss a simple OpenGL programs and its capabilities

Information Retrieval

- Essential to introduce information types, data storage, file systems
- Searching and Sorting techniques for information retrieval

Machine Learning

- Introduce types of data and its characteristics
- Preprocessing data techniques to be highlighted
- Example programs to run on simple datasets

Computer Networks Lab

- Focus on Fundamentals, networking commands and tools
- Use wireshark packet analyser to capture and visualize packets and its headers/contents

Software Testing

- Importance of software testing to be highlighted

Advanced Computer Networks

- All fundamentals to be discussed in 5th semester computer networks
- Use wireshark to practically illustrate various layers, its headers in packets

Cloud Computing

- Introduce SaaS, Naas, Paas etc.,
- Discuss case studies using AWS, OCS etc.,

SUGGESTIONS REPORTED BY EXTERNAL BOS MEMBERS REGARDING THE SYLLABUS FRAMING FOR 5TH AND 6TH SEMESTER SUBJECTS OF NEP 21 SCHEME

B.V.PALLAVI
Lead-ETA
Infosys, Mysore

Software engineering & Project management

- Include more information on scrum and kanban, Agile jargons

Advanced Java & J2EE

- Include regular expressions & lambda functions so as to motivate the students by easing the complications

Information Retrieval

- Introduce few concepts of file structures to make students understand the problem

Computer Networks Lab

- Frame scenario based questions for the lab

Software Testing

- Emphasize importance of testing

Cloud Computing

- Types of cloud must be well explained with real time examples

Department of Mechanical Engineering

Meeting held on 11-07-2023 in the Department of Mechanical Engineering, PESCE, Mandya.

Table of Proceedings/ Suggestions given by BOS Experts and implementation /Rectification

Sl No	Name of the BOS Member	Suggestions given by experts	Rectifications/Implementations or Suggestions taken by Department
1.	**Dr. R. KESHAVAMURTHY** Professor & Head Department of Mechanical Engg. DayanandaSagar College of Engg. Bengaluru-560078	1. Management and Entrepreneurship: Institutional support and Government schemes available for start-up may be included.	Suggestion is considered and incorporated in the syllabus.
		2. Consider merging of advanced joining techniques with advanced machining techniques, if AJT is not covered in next semesters.	AJT will be included in the syllabus of higher semester.
		3. Recommended to include Reference book- Madhav S Padhke for Design of Experiments. Also consider few case studies.	Reference book- Madhav S Padhke is included as a reference book in the syllabus.
		4. Microprocessor and Mechatronics may be included as elective subjects for mechanical students.	Suggestion is considered and it will be incorporated in P22 scheme.
		5. Concepts of Automated Guided Vehicles (AGV) may be included in Computer Integrated Manufacturing or Robotics and Automation.	Suggestion is considered and incorporated in the syllabus.
		6. Metal matrix composites may be included in the Advanced Engineering materials. Include Manufacturing aspects of metal matrix composites.	Suggestion is considered and incorporated in the syllabus.
		7. Rename Automatic Control Engineering as Control Engineering.	Suggestion is considered and incorporated in the syllabus.
		8. Include concepts of Hydrogen Energy in Alternate fuels and energy conservation.	Suggestion is considered and incorporated in the syllabus.
		9. Concept of charging stations to be included in the Electrical and Hybrid vehicles subject.	Suggestion is considered and incorporated in the syllabus.

		10. Consider case studies on Electronic components in Unit-4 and 5 for FEM subject.	Suggestion is considered and incorporated in the syllabus
		11. Concept of FAME-01 and FAME-02 to be included in Electric and Hybrid vehicles subject.	Suggestion is considered and incorporated in self-study component.
2	**Dr. RAMAMOHAN Y S** Professor and Head Department of Aerospace Engineering, BMS College of Engineering, Bengaluru – 560019	1. For P21ME501 Add Govt. schemes, MSME etc., as self-study component.	Suggestion is considered and incorporated in the syllabus.
		2. DME-I – Add design thinking concepts to self-study.	The concept is included in other subject.
		3. TOE- Add Possible python program tool usage for stress calculation.	Discussed with the subject expert and the same syllabus retained.
		4. 5^{th}sem – Offer introductory course on Aircrafts before rocket propulsion elective.	The elective 'Aircraft and Rocket Propulsion' is a course that covers the fundamental propulsion aspects of aircraft and rocket engines. In this course, the first three units cover the essential fundamentals of aircraft engines. However, a topic aircraft component nomenclature that deals with the basic aircraft components and their function is added in unit 1.
		5. Open elective – Mechatronics and Microprocessor can be offered to mechanical students.	Discussed with internal BOS members will be offered in new scheme.
		6. ESA can be offered to mechanical students also.	Suggestion is considered and it will be incorporated in P22 scheme.
		7. Alternate fuels, Energy Conversion and Conservation – Title change.	Suggestion is considered and incorporated in the syllabus.
		8. Change Automatic Control Engineering to Control Engineering.	Title is changed to Control Engineering.
		9. Some of the open elective offered to only other Departments, like Hybrid vehicles, Maintenance Engg. etc., can be offered for mechanical students also.	Suggestion is considered and incorporated in the syllabus.
		10. Policy decision can be made at the college level for offering	It will be conveyed to Dean academic.

		Non-core open elective to parent Dept. students as well.	
		11. Keep internship at the end of 6th sem and Mini-project for 5th sem.	It will be conveyed to Dean academic.
3	**Dr. G.V. NAVEEN PRAKASH** Professor and Head Department of Mechanical Engineering, VVCE, Mysore-570002	1. Uniform number of hours should be maintained for all modules in a course.	In all subjects uniformity is maintained
		2. Title need to be changed as Heating, Ventilation and Air Conditioning in the syllabus.	Title has been changed to Heating, Ventilation and Air Conditioning in the syllabus.
		3. Add one unit of advanced topics of NTM or basics of NDT and Inspection Techniques.	Basics of NDT and Inspection Techniques are incorporated in the NDT syllabus.
		4. Case studies can be included in Design of Experiments.	Suggestion is considered and incorporated in the syllabus.
		5. Mechatronics and Microprocessor can be included in Professional core course elective - I	Discussed with internal BOS members will be included in new scheme.
		6. Include MMC and CMC in Advanced engineering materials.	Suggestion is considered and incorporated in the syllabus.
		7. Maintenance Engineering can be included in Professional elective.	Suggestion is considered and it will be incorporated in P22 scheme.
4	**Dr. D.K.RAMESHA** Professor Department of Mechanical Engineering, University Visvesvaraya College of Engg., Bangalore.	**V Semester**	
		1. Fundamentals of thermal sciences (open elective)- Units can be rearranged.	Suggestion is considered and incorporated in the syllabus
		2. NPTEL reference can be added.	Suggestion is considered and incorporated in the syllabus.
		VI Semester	
		1. Alternate Fuels and Energy Conservation – Add Hydrogen Energy component. Title may be changed as Alternate Fuels, Energy conversion and conservation.	Suggestion is considered and incorporated in the syllabus.
		2. Heat transfer in lab analysis can be done using appropriate software and techniques.	Suggestion is considered and incorporated in the syllabus.
		3. Electric and Hybrid vehicles can be shifted to Mechanical Engineering and Alternate Fuels can be treated as open elective.	Suggestion is considered and it will be incorporated in P22 scheme.

5	**Mr. A. Y. JAYAPRAKASH** TCS, Bengaluru.	**V Semester**	
		1. Validate authencity of all YouTube e – resources.	Suggestion is checked and incorporated in the syllabus.
		2. There shall be at least 1 reference NPTEL course for each course.	Suggestion is considered and incorporated in the syllabus.
		3. Introduce design thinking concept in design of machine elements.	Suggestion is considered and it will be incorporated in P22 scheme.
		4. Theory of elasticity: simple program to compute stiffness matrix: stress/strain derivation for simple problem.	Discussed with the subject expert and the same syllabus retained.
		5. Non-traditional machining: reference to concerned machining standard shall be included.	Suggestion is considered and incorporated in the e-Resources.
		6. Aircraft and rocket propulsion: Include NPTEL course from Prof. Rajkumar Pant.	The NPTEL COURSE from Prof. RajkumarPant is included.
		7. Introduce aircraft structure in V semester propulsion can be in VI Semester → suggestion.	In this course, the first three units cover the essential fundamentals of aircraft engines. Moreover, aircraft structures are a design based course and may not be considered as a prerequisite for the thermal based course under consideration.
		8. Mechatronics: Introduce Arduino /Rosepery pi: modules.	Considered and included in 5^{th} Unit self-study component.
		9. Include mechatronics as elective for mechanical students.	Suggestion is considered and it will be incorporated in P22 scheme.
		VI Semester	
		1. Reference to Nitin Gokale's practical FEM.	Suggestion is considered and incorporated in the syllabus
		2. Include concept of additive layer manufacturing.	Suggestion is considered and incorporated in the syllabus of CIM P21ME6021.
		3. Automatic Control engineering title should change to control engineering.	Suggestion is considered and incorporated in the syllabus.
		4. In Introduction to FEM → Introduce Multiphysics, thermal packaging related section for open elective purpose.	Concepts will be included in the next scheme
		5. Mechanical students should get a knew of what elective (open) they can take from other departments.	It will be conveyed to Dean academic.

Proceedings of Basic Science

Department of Mathematics

Proceedings of BOS Meeting held on 20-07-2023

Sub:-Third and fourth semester Engineering Mathematics and Additional Mathematics as per NEP guidelines (P22MA301, P22MA401A, P22MA401B and P22MADIP301, P22MADIP401) changes and Justification-Reg. Resolution:

Approval of syllabi changes and justification for Third and Fourth semester Engineering Mathematics **(P22MA301,** common to all branches as for CBCS**)** , (**P22MA401A** common to **CV, MEC, IP, AUT** branches as for CBCS) (**P22MA401B,** common to **EC, EE, CS, IS** as for CBCS),and additional Mathematics for lateral entry **P21MADIP301, P21MADIP401** with OBE framework have been considered. Discussions were made subjectively on CLO's, CO's, TLO's, Course Contents, Articulation Matrix and CO, PO mapping for B.E. programme. Suggestions of the internal members and external members (through E-Mail) of the BOS committee were incorporated in the course content of the subject. The BOS committee authorized to BOS chairman for essential minor changes/modifications in the syllabi of the course discussed in the meeting as and when which required ,also any changes/modifications in the syllabi of the course discussed through email with externals.

Members Present:

Sl. No.	Name	Position	Institution	Signature
1	Dr. B. Shanmukha	Chairman	PESCE, Mandya	
2	Dr.Puttaswamy	Member	PESCE, Mandya	
3	Sri M.N.Prakasha	Member	PESCE, Mandya	
4	Dr. M. Prasad	Member	PESCE, Mandya	
5	Dr. S.R Nayaka	Member	PESCE, Mandya	
6	Dr.G.Sharath	Member	PESCE, Mandya	
7	Dr.R.Murali,	VTU, Nominee	Dr.AIT	
8	Dr.K.Chidananda Murthy	Industry	Intel India Pvt Ltd,	

HOD& BOS Chairman
Department of Mathematics

ANNEXURE – II

Students placed list during 2022-23

SL. NO.	NAME	USN	NAME OF THE EMPLOYER	SALARY
1	ABHISHEK ANAND	4PS19CS002	ACCENTURE	6.5
2	ANJALI C	4PS19CS012	ACCENTURE	4.5
3	ANNIKA RAI	4PS19CS013	ACCENTURE	4.5
4	BALVINDER SINGH	4PS19CS017	ACCENTURE	4.5
5	BINDUSHREE GS	4PS19CS021	ACCENTURE	4.5
6	DARSHAN GUPTA	4PS19CS025	ACCENTURE	4.5
7	DEBADITYA SUTRADHAR	4PS19CS026	ACCENTURE	4.5
8	KRUTHIKA M	4PS19CS040	ACCENTURE	4.5
9	MOHAMMED ADNAN	4PS19CS055	ACCENTURE	4.5
10	PRAYAG RAJ	4PS19CS075	ACCENTURE	4.5
11	RENUKA PRASAD S M	4PS19CS083	ACCENTURE	4.5
12	RIYA KUMARI	4PS19CS084	ACCENTURE	4.5
13	S S NIREEKSHA JAIN	4PS19CS087	ACCENTURE	4.5
14	SAWIKAR SINGH	4PS19CS094	ACCENTURE	4.5
15	SHILPITHA K V	4PS19CS100	ACCENTURE	4.5
16	SNEHA R	4PS19CS103	ACCENTURE	4.5
17	VISHAL M G	4PS19CS124	ACCENTURE	4.5
18	ADNAN KHAN	4PS20CS400	ACCENTURE	4.5
19	KUMAR SOMU	4PS19CS041	ACCOLITE DIGTAL	6
20	S S NIREEKSHA JAIN	4PS19CS087	ACCOLITE DIGTAL	8
21	AKSHAT KUMAR	4PS19CS007	BRILLIO	8.5
22	AKSHAY N S	4PS19CS010	BRILLIO	8.5
23	LAKSHMISH R	4PS19CS046	BRILLIO	8.5
24	SAHANA S R	4PS19CS091	BRILLIO	8.5
25	SHASHANK GOWDA H S	4PS19CS098	BRILLIO	8.5
26	METILDA D SANCHEZ	4PS19CS052	CAMPALIN	4
27	MONISHA M	4PS19CS057	CAMPALIN	4
28	SPANDANA C	4PS19CS107	CAMPALIN	4
29	ABHIYANSHU SAHU	4PS19CS003	CAPGEMINI	4.25
30	AKSHAY HARWALKAR	4PS19CS008	CAPGEMINI	4.25
31	BHOOMIKA H L	4PS19CS019	CAPGEMINI	4.25
32	BHUMIKA R	4PS19CS020	CAPGEMINI	4.25
33	MOHAMMED DANIAL	4PS19CS056	CAPGEMINI	4.25
34	MUTUKUNDU MAHENDRA REDDY	4PS19CS059	CAPGEMINI	4.25
35	NAVEEN KUMAR M	4PS19CS063	CAPGEMINI	4.25
36	NEELAMBIKA N	4PS19CS065	CAPGEMINI	4.25
37	NITHYASHREE MP	4PS19CS066	CAPGEMINI	4.25
38	NITIN JAIN D	4PS19CS067	CAPGEMINI	4.25
39	PALLAVI S	4PS19CS069	CAPGEMINI	4.25

40	PRAKRUTHI P	4PS19CS074	CAPGEMINI	4.25
41	PREETHI M	4PS19CS077	CAPGEMINI	4.25
42	RIYA KUMARI	4PS19CS084	CAPGEMINI	4.25
43	S S NIREEKSHA JAIN	4PS19CS087	CAPGEMINI	4.25
44	SAHANA R	4PS19CS089	CAPGEMINI	4.25
45	SHREEKALA M K	4PS19CS102	CAPGEMINI	4.25
46	SNEHA R	4PS19CS103	CAPGEMINI	4.25
47	SPANDANA C S	4PS19CS108	CAPGEMINI	4.25
48	SUMUKH S R KASHYAP	4PS19CS112	CAPGEMINI	4.25
49	SYED MOHAMMED NOORUN NABI	4PS19CS113	CAPGEMINI	4.25
50	VIDYA SHREE R	4PS19CS122	CAPGEMINI	4.25
51	YASHUMATHI K L	4PS19CS126	CAPGEMINI	4.25
52	HARSHIT RAJ KUMAR	4PS19CS035	CMS COMPUTERS LIMITED	5.5
53	MOHAMMED ADNAN	4PS19CS055	CMS COMPUTERS LIMITED	5.5
54	L.A SHREEGOWRI	4PS19CS045	DXC TECHNOLOGY	4
55	ANNIKA RAI	4PS19CS013	DXC TECHNOLOGY	4
56	BALVINDER SINGH	4PS19CS017	DXC TECHNOLOGY	4
57	BHANUPRAKASH.	4PS19CS018	DXC TECHNOLOGY	4
58	BHOOMIKA H.L.	4PS19CS019	DXC TECHNOLOGY	4
59	BHUMIKA R	4PS19CS020	DXC TECHNOLOGY	4
60	DARSHAN GUPTA	4PS19CS025	DXC TECHNOLOGY	4
61	DEVIKA C R	4PS19CS027	DXC TECHNOLOGY	4
62	DIVYANSH TAMRAKAR	4PS19CS030	DXC TECHNOLOGY	4
63	HARSHITHA R	4PS19CS036	DXC TECHNOLOGY	4
64	MUTUKUNDU MAHENDRA REDDY	4PS19CS059	DXC TECHNOLOGY	4
65	N GOWTHAM	4PS19CS060	DXC TECHNOLOGY	4
66	NITIN JAIN D	4PS19CS067	DXC TECHNOLOGY	4
67	PRAYAG RAJ	4PS19CS075	DXC TECHNOLOGY	4
68	PREETHI M	4PS19CS077	DXC TECHNOLOGY	4
69	RIYA KUMARI	4PS19CS084	DXC TECHNOLOGY	4
70	ROHINI R	4PS19CS085	DXC TECHNOLOGY	4
71	S S NIREEKSHA JAIN	4PS19CS087	DXC TECHNOLOGY	4
72	SAHANA R	4PS19CS089	DXC TECHNOLOGY	4
73	SAHANA S R	4PS19CS091	DXC TECHNOLOGY	4
74	SHASHANK GOWDA H S	4PS19CS098	DXC TECHNOLOGY	4
75	TEJAS N	4PS19CS116	DXC TECHNOLOGY	4
76	VISHAL M G	4PS19CS124	DELTAX	7
77	YASHUMATHI K L	4PS19CS126	DXC TECHNOLOGY	4
78	PRAKRUTHI P	4PS19CS074	GENC	4
79	ANIMESH GHOSH	4PS19CS011	GENC	4
80	BHUMIKA R	4PS19CS020	GENC	4
81	CHANDRA SHEKAR M B	4PS19CS023	GENC	4
82	D N VEERENDRA PATEL	4PS19CS024	GENC	4
83	DEBADITYA SUTRADHAR	4PS19CS026	GENC	4

84	HARSHANGOWDA H K	4PS19CS034	GENC	4
85	HARSHITHA R	4PS19CS036	GENC	4
86	KUSHAL RANGANATH M B	4PS19CS043	GENC	4
87	LAKSHMISH R	4PS19CS046	GENC	4
88	MISHKAATH S	4PS19CS054	GENC	4
89	MUTUKUNDU MAHENDRA REDDY	4PS19CS059	GENC	4
90	N GOWTHAM	4PS19CS060	GENC	4
91	PRADIP SINHA	4PS19CS072	GENC	4
92	RACHANA A	4PS19CS078	GENC	4
93	SAHANA R	4PS19CS089	GENC	4
94	SANTHOSH R	4PS19CS093	GENC	4
95	SPANDANA C S	4PS19CS108	GENC	4
96	SUMUKH S R KASHYAP	4PS19CS112	GENC	4
97	UDAYADITYA D	4PS19CS117	GENC	4
98	YUVA RANI K S	4PS19CS127	GENC	4
99	ANNIKA RAI	4PS19CS013	GENC ELEVATE	4.25
100	KUSHAL RANGANATH M B	4PS19CS043	ELSEVIER	8.08
101	SAHANA R	4PS19CS089	GLOBAL LOGIC	5.5
102	SHAHID EQUBAL	4PS19CS095	GLOBAL LOGIC	5.5
103	STEVE PRATHIK FERNANDES	4PS19CS110	GENC PRO	5.5
104	DIVYANSH TAMRAKAR	4PS19CS030	HASHEDIN TECHNOLOGIES	8.1
105	HARSHIT RAJ KUMAR	4PS19CS035	HITACHI ENERGY: INTERNSHIP	1.44
106	MUTUKUNDU MAHENDRA REDDY	4PS19CS059	HASHEDIN TECHNOLOGIES	8.1
107	ROHINI R	4PS19CS085	HITACHI ENERGY: INTERNSHIP	1.44
108	SNEHA R	4PS19CS103	HITACHI ENERGY: INTERNSHIP	1.44
109	ADARSH RAJ	4PS19CS004	IMARTICUS	5
110	HARSH MISHRA	4PS19CS033	INCTURE'S	6.25
111	LIKITHA PURUSHOTHAM	4PS19CS049	INCTURE'S	6.25
112	SHIVAPRASAD D N	4PS19CS101	IBM	11
113	SOUMYA SHREYA	4PS19CS106	INCTURE'S	6.25
114	SREYANJANA SAHA	4PS19CS109	INCTURE'S	6.25
115	TEJAS N	4PS19CS116	INCTURE'S	6.25
116	VINUTH K	4PS19CS123	INCTURE'S	6.25
117	AKSHAY HARWALKAR	4PS19CS008	ITC INFOTECH	4.25
118	ANIMESH GHOSH	4PS19CS011	ITC INFOTECH	4.25
119	ANNIKA RAI	4PS19CS013	ITC INFOTECH	4.25
120	BHUMIKA R	4PS19CS020	ITC INFOTECH	4.25
121	DIVYANSH TAMRAKAR	4PS19CS030	ITC INFOTECH	4.25
122	HARSHIT RAJ KUMAR	4PS19CS035	ITC INFOTECH	4.25
123	KUNAL VERMA	4PS19CS042	ITC INFOTECH	4.25
124	METILDA D SANCHEZ	4PS19CS052	JOSH MITHRA	4
125	NAGARJUNA T R	4PS19CS062	ITC INFOTECH	4.25

126	NAVEEN KUMAR.M	4PS19CS063	ITC INFOTECH	4.25
127	NEELAMBIKA N	4PS19CS065	ITC INFOTECH	4.25
128	NITHYASHREE MP	4PS19CS066	ITC INFOTECH	4.25
129	NITIN JAIN D	4PS19CS067	ITC INFOTECH	4.25
130	PRADIP SINHA	4PS19CS072	ITC INFOTECH	4.25
131	PREETHAM DEV T B	4PS19CS076	ITC INFOTECH	4.25
132	PREETHI M	4PS19CS077	ITC INFOTECH	4.25
133	SAHANA R	4PS19CS089	ITC INFOTECH	4.25
134	SANTHOSH R	4PS19CS093	ITC INFOTECH	4.25
135	VIDYA BHUSHAN	4PS19CS121	ITC INFOTECH	4.25
136	DHANUSH KS	4PS19CS028	KODNEST	3.5
137	SNEHA M	4PS20CS409	KODNEST	3.5
138	CHIRAG R	4PS21CCS04	KEYLYNK	3
139	RAJKISHOR G S	4PS21CCS07	KEYLYNK	3
140	ROHITH R	4PS21CCS08	KEYLYNK	3
141	VISHNU V BHAT	4PS21CCS12	KEYLYNK	3
142	CHANDRA SHEKAR M B	4PS19CS023	L&T TECHNOLOGY SERVICES LIMITED	4
143	GURU PRASAD S	4PS19CS032	L&T TECHNOLOGY SERVICES LIMITED	4
144	KUSHAL RANGANATH M B	4PS19CS043	L&T TECHNOLOGY SERVICES LIMITED	4
145	NAYANKUMAR M	4PS19CS064	L&T TECHNOLOGY SERVICES LIMITED	4
146	SHILPITHA K V	4PS19CS100	L&T TECHNOLOGY SERVICES LIMITED	4
147	SONIKA N	4PS19CS105	L&T TECHNOLOGY SERVICES LIMITED	4
148	STEVE PRATHIK FERNANDES	4PS19CS110	L&T TECHNOLOGY SERVICES LIMITED	4
149	SUHAS M DEV	4PS19CS111	L&T TECHNOLOGY SERVICES LIMITED	4
150	TARUN KUMAR	4PS19CS115	L&T TECHNOLOGY SERVICES LIMITED	4
151	ANIMESH GHOSH	4PS19CS011	LIGHT & WONDER	8.76
152	BHANUPRAKASH .	4PS19CS018	LIGHT & WONDER	8.76
153	HARSHITHA R	4PS19CS036	LIGHT & WONDER	8.76
154	MOHAMMED ADNAN	4PS19CS055	LIGHT & WONDER	8.76
155	NITIN JAIN D	4PS19CS067	LIGHT & WONDER	8.76
156	VISHAL M G	4PS19CS124	LIGHT & WONDER	8.76
157	DARSHAN GUPTA	4PS19CS025	MILESTONE	7
158	SHREEKALA M.K	4PS19CS102	MILESTONE	7
159	TARUN KUMAR	4PS19CS115	NEXTUPLE	8
160	TEJAS N	4PS19CS116	NEXTUPLE	8
161	AKSHAT KUMAR	4PS19CS007	NIRBUS TECHNOLOGIES INTERNSHIP	1.8
162	HARSH MISHRA	4PS19CS033	NIBRUS TECHNOLOGIES PRIVATE LIMITED,	8

163	ARKA DEEP SHIT	4PS19CS016	RINEX TECHNOLOGIES PVT. LTD	4
164	DEVIKA C R	4PS19CS027	PROPEL	4.5
165	HARSHITHA R	4PS19CS036	PROPEL	4.5
166	RAKSHA P	4PS19CS080	RINEX TECHNOLOGIES PVT. LTD	4
167	CHANDRA SHEKAR M B	4PS19CS023	SONATA SOFTWARE	6
168	SAWIKAR SINGH	4PS19CS094	SKOLAR	6
169	SHAHID EQUBAL	4PS19CS095	SONATA SOFTWARE	6
170	SYED MOHAMMED NOOR UN NABI	4PS19CS113	SONATA SOFTWARE	6
171	VISHRUTH N	4PS18CS122	SYSFORE TECHNOLOGIES	3
172	AKSHAY KUMAR S	4PS19CS009	SRICHID ACADEMY	5
173	BINDUSHREE GS	4PS19CS021	SYSFORE TECHNOLOGIES	3
174	DHANUSH KS	4PS19CS028	SYSFORE TECHNOLOGIES	3
175	SHREERAKSHA .	4PS20CS408	SYSFORE TECHNOLOGIES	3
176	SNEHA M	4PS20CS409	SYSFORE TECHNOLOGIES	3
177	HARSHIT RAJ KUMAR	4PS19CS035	TCS DIGITAL	7.6
178	NITIN JAIN D	4PS19CS067	TCS DIGITAL	7.6
179	S S NIREEKSHA JAIN	4PS19CS087	TCS DIGITAL	7.6
180	UDAYADITYA D	4PS19CS117	TCS DIGITAL	7.6
181	VIDYA BHUSHAN	4PS19CS121	TCS DIGITAL	7.6
182	ABHISHEK ANAND	4PS19CS002	TCS NINJA	3.36
183	AKSHAY HARWALKAR	4PS19CS008	TCS NINJA	3.36
184	KUNAL VERMA	4PS19CS042	TCS NINJA	3.36
185	LAKSHMISH R	4PS19CS046	TCS NINJA	3.36
186	LIKITHA PURUSHOTHAM	4PS19CS049	TCS NINJA	3.36
187	SONIKA N	4PS19CS105	TCS NINJA	3.36
188	NITHYASHREE MP	4PS19CS066	TRICON INFOTECH	5.5
189	RAKESH S	4PS19CS079	UNSCHOOL	6.5
190	SOMASUNDAR M	4PS19CS104	TECH MAHINDRA	3.5
191	AKSHAY HARWALKAR	4PS19CS008	VALTECH	6
192	ANIMESH GHOSH	4PS19CS011	VALTECH	6
193	ANJALI C	4PS19CS012	VALTECH	6
194	ANNIKA RAI	4PS19CS013	VALTECH	6
195	DEVIKA C R	4PS19CS027	VALTECH	6
196	MUKESH K C	4PS19CS058	VALTECH	6
197	PREETHI M	4PS19CS077	VALTECH	6
198	SNEHA R	4PS19CS103	VALTECH	6
199	POOJA H M	4PS20CS406	VALTECH	6
200	ANNIKA RAI	4PS19CS013	VOLVO GROUP INDIA PVT LTD	8
201	LIKITHA PURUSHOTHAM	4PS19CS049	VOLVO GROUP INDIA PVT LTD	8
202	PREETHI M	4PS19CS077	VOLVO GROUP INDIA PVT LTD	8
203	ROHINI R	4PS19CS085	VOLVO GROUP INDIA PVT LTD	8
204	SHILPITHA K V	4PS19CS100	VOLVO GROUP INDIA PVT LTD	8
205	SONIKA N	4PS19CS105	VOLVO GROUP INDIA PVT LTD	8
206	SOUMYA SHREYA	4PS19CS106	VOLVO GROUP INDIA PVT LTD	8
207	UMME HANI	4PS19CS118	VIATRIS	5

208	PRAKRUTHI H S	4PS19CS073	X-WORKZ	3
209	PREETHAM DEV T B	4PS19CS076	WILEY EDGE	9
210	STEVE PRATHIK FERNANDES	4PS19CS110	WILEY EDGE	9
211	SHREERAKSHA	4PS20CS408	X-WORKZ	3
212	ANU KUMAR K C	4PS19EC018	6D TECHNOLOGIES	4
213	CHETHAN N	4PS19EC033	6D TECHNOLOGIES	4
214	KSHITHIJ BHARADWAJ KV	4PS19EC069	6D TECHNOLOGIES	4
215	TEJAS M	4PS20EC420	6D TECHNOLOGIES	4
216	VAISHNAVI S SULAKHE	4PS19EC165	6D TECHNOLOGIES	4
217	GUNASHREE H S	4PS19EC049	ACCENTURE	4.5
218	KARTHIK S	4PS19EC066	ACCENTURE	4.5
219	MANASA T K	4PS19EC076	ACCENTURE	4.5
220	SAKET MISHRA	4PS19EC129	ACCENTURE	4.5
221	ANCHAL JAIN S	4PS19EC014	ACCENTURE	4.5
222	MAHIMA BHAT	4PS19EC075	ACCENTURE	4.5
223	ASHRITA M ASHWIN	4PS19EC020	ACCENTURE	4.5
224	HRITTIK SAHA	4PS19EC062	BOSCH INTERNSHIP	*
225	NEHA ANANTH K	4PS19EC092	BOSCH INTERNSHIP	*
226	TEJAS R	4PS19EC159	BOSCH INTERNSHIP	*
227	DARSHINI M	4PS19EC036	CADMAXX EDTECH PVT LTD.	3
228	SKANDA M K	4PS19EC148	BRILLIO	8.5
229	BHANUPRIYA C	4PS19EC024	CAMPALIN	4
230	CHETHAN N	4PS19EC033	CAMPALIN	4
231	TANYA R	4PS19EC158	CAMPALIN	4
232	NIREEKSHA CK	4PS19EC094	CAMPALIN	4
233	J KARTHIK KUMAR	4PS19EC178	CAMPALIN	4
234	GUNASHREE H S	4PS19EC049	CAPGEMINI	4.25
235	ANANYA D	4PS19EC012	CAPGEMINI	4.25
236	CHETHAN K C	4PS19EC032	CAPGEMINI	4.25
237	HEMANTH M	4PS19EC059	CAPGEMINI	4.25
238	HONNUSHREE CD	4PS19EC061	CAPGEMINI	4.25
239	KARTHIK S	4PS19EC066	CAPGEMINI	4.25
240	LAKSHMI M	4PS19EC071	CAPGEMINI	4.25
241	MANASA T K	4PS19EC076	CAPGEMINI	4.25
242	SAHITHYA U K	4PS19EC127	CAPGEMINI	4.25
243	VINAY B S	4PS19EC170	CAPGEMINI	4.25
244	AMULYA B S	4PS19EC011	CAPGEMINI	4.25
245	DARSHAN K R	4PS19EC034	CAPGEMINI	4.25
246	DEEPU RAGHAVENDRA R	4PS19EC039	CAPGEMINI	4.25
247	POOJA T	4PS19EC104	CAPGEMINI	4.25
248	RACHANA K	4PS19EC108	CAPGEMINI	4.25
249	RASHI K P	4PS19EC121	CAPGEMINI	4.25
250	RUKMINI T	4PS19EC157	CAPGEMINI	4.25
251	AMRUTHA K	4PS19EC010	CAPGEMINI	4.25

252	DARSHINI H S	4PS19EC035	CAPGEMINI	4.25
253	HAMSA HM	4PS19EC052	CAPGEMINI	4.25
254	KAVYA M	4PS19EC067	CAPGEMINI	4.25
255	LAKSHMI HP	4PS19EC070	CAPGEMINI	4.25
256	MEGHANA K J	4PS19EC079	CAPGEMINI	4.25
257	MOHAMMED ASIF	4PS19EC080	CAPGEMINI	4.25
258	OM PRAKASH V	4PS19EC099	CAPGEMINI	4.25
259	SHREYAS DHANU JM	4PS19EC139	CAPGEMINI	4.25
260	SONIA DHADANGE	4PS19EC149	CAPGEMINI	4.25
261	SOUNDARYA M D	4PS19EC150	CAPGEMINI	4.25
262	SRUJAN S	4PS19EC152	CAPGEMINI	4.25
263	GOWTHAMI GOWDA H P	4PS19EC048	COREEL TECHNOLOGIES	6
264	AMULYA B S	4PS19EC011	CMS COMPUTERS LIMITED	5.5
265	NEHA ANANTH K	4PS19EC092	COREEL TECHNOLOGIES	6
266	GOWTHAMI GOWDA H P	4PS19EC048	DXC TECHNOLOGY	4
267	GUNASHREE H S	4PS19EC049	DXC TECHNOLOGY	4
268	SAHANA H N	4PS19EC125	DXC TECHNOLOGY	4
269	ANANYA D	4PS19EC012	DXC TECHNOLOGY	4
270	BIBI HAFSA	4PS19EC029	DXC TECHNOLOGY	4
271	HEMANTH M	4PS19EC059	DXC TECHNOLOGY	4
272	HONNUSHREE CD	4PS19EC061	DXC TECHNOLOGY	4
273	SAHITHYA U K	4PS19EC127	DXC TECHNOLOGY	4
274	SAKET MISHRA	4PS19EC129	DXC TECHNOLOGY	4
275	AISHWARYA S J	4PS19EC007	DXC TECHNOLOGY	4
276	ANCHAL JAIN S	4PS19EC014	DXC TECHNOLOGY	4
277	DARSHAN K R	4PS19EC034	DXC TECHNOLOGY	4
278	GURUPRASAD VENKATESH HONNEGUNDI	4PS19EC050	DXC TECHNOLOGY	4
279	HRITTIK SAHA	4PS19EC062	DXC TECHNOLOGY	4
280	RACHANA K	4PS19EC108	DXC TECHNOLOGY	4
281	RASHI KP	4PS19EC121	DXC TECHNOLOGY	4
282	SHEELA A	4PS19EC137	DXC TECHNOLOGY	4
283	T RUKMINI	4PS19EC157	DXC TECHNOLOGY	4
284	USHA K	4PS19EC164	DXC TECHNOLOGY	4
285	AMEENA KAUSAR	4PS19EC009	DXC TECHNOLOGY	4
286	ANJALI N	4PS19EC017	DXC TECHNOLOGY	4
287	ASHWINI N	4PS19EC022	DXC TECHNOLOGY	4
288	GANASHREE K R	4PS19EC043	DXC TECHNOLOGY	4
289	GEETHANJALI K	4PS19EC045	DXC TECHNOLOGY	4
290	HARSHITHA D V	4PS19EC056	DXC TECHNOLOGY	4
291	RACHANASHREE A	4PS19EC109	DXC TECHNOLOGY	4
292	SHREYAS G	4PS19EC140	DXC TECHNOLOGY	4
293	YASHASWINI CS	4PS19EC173	DXC TECHNOLOGY	4
294	SHRADDHA HOLAGI	4PS20EC417	DXC TECHNOLOGY	4
295	THANUSHREE N	4PS20EC422	DXC TECHNOLOGY	4

296	SAHANA H N	4PS19EC125	GENC	4
297	BIBI HAFSA	4PS19EC029	GENC	4
298	HEMANTH M	4PS19EC059	GENC	4
299	SAKET MISHRA	4PS19EC129	GENC	4
300	AISHWARYA SJ	4PS19EC007	GENC	4
301	GURUPRASAD VENKATESH HONNEGUNDI	4PS19EC050	GENC	4
302	USHA K	4PS19EC164	FIRST AMERICAN	7.5
303	GANESH PUTRAN	4PS19EC044	GENC	4
304	MOKSHA H N	4PS19EC083	GENC	4
305	NITHYASHREE R	4PS19EC098	GENC	4
306	RUCHITHA	4PS19EC123	GENC	4
307	SANJANA NAGARAJ	4PS19EC131	GENC	4
308	SHREYAS RAJ R	4PS19EC141	GENC	4
309	SAHANA H N	4PS19EC125	GLOBAL LOGIC	5.5
310	ANANYA D	4PS19EC012	GLOBAL LOGIC	5.5
311	BIBI HAFSA	4PS19EC029	GLOBAL LOGIC	5.5
312	CHETHAN K C	4PS19EC032	GENC ELEVATE	4.25
313	CHETHAN K C	4PS19EC032	GLOBAL LOGIC	5.5
314	SAHITHYA U K	4PS19EC127	GLOBAL LOGIC	5.5
315	ANU KUMAR K C	4PS19EC018	GLOBAL LOGIC	5.5
316	MONIKA RAJ M R	4PS19EC086	IMMENSPHERE	3.5
317	PRANAV M S	4PS19EC105	HEXAWARE TECHNOLOGIES	4
318	SHALINI B M	4PS19EC133	IMMENSPHERE	3.5
319	ASHWIN M H	4PS19EC021	IMMENSPHERE	3.5
320	SINDHU V	4PS19EC147	IMMENSPHERE	3.5
321	SPOORTHI V	4PS19EC151	IMMENSPHERE	3.5
322	SUSHMITHA S	4PS19EC156	INTELLIPAAT	9
323	HARISH KUMAR	4PS18EC036	INTELLIPAAT	9
324	MOWLYA SHREE M	4PS19EC087	INTELLIPAAT	9
325	ADITHYA G S	4PS19EC004	INCTURE'S	6.25
326	GOWTHAMI GOWDA H P	4PS19EC048	ITC INFOTECH	4.25
327	GUNASHREE H S	4PS19EC049	ITC INFOTECH	4.25
328	HONNUSHREE CD	4PS19EC061	ITC INFOTECH	4.25
329	MANASA T K	4PS19EC076	ITC INFOTECH	4.25
330	VINAY B S	4PS19EC170	ITC INFOTECH	4.25
331	MAHIMA BHAT	4PS19EC075	ITC INFOTECH	4.25
332	SHEELA A	4PS19EC137	ITC INFOTECH	4.25
333	SHALINI D M	4PS19EC134	ITC INFOTECH	4.25
334	ARUN KUMAR V	4PS20EC406	ITC INFOTECH	4.25
335	HARSHA KUMAR GOWDA DK	4PS19EC053	JOSH MITHRA	4
336	MONIKARAJ M R	4PS19EC086	JOSH MITHRA	4
337	DEEKSHITH C R	4PS19EC038	JOSH MITHRA	4
338	DEVIKA RANI B S	4PS19EC040	JOSH MITHRA	4

339	PRUTHVI GOWDA	4PS19EC107	JOSH MITHRA	4
340	RAJU C	4PS19EC112	JOSH MITHRA	4
341	LAKSHMI M	4PS19EC071	L&T TECHNOLOGY SERVICES LIMITED	4
342	DEEPU RAGHAVENDRA R	4PS19EC039	L&T TECHNOLOGY SERVICES LIMITED	4
343	KSHITHIJ BHARADWAJ KV	4PS19EC069	L&T TECHNOLOGY SERVICES LIMITED	4
344	POOJA T	4PS19EC104	L&T TECHNOLOGY SERVICES LIMITED	4
345	SIDDESHPRASAD B_C	4PS19EC145	L&T TECHNOLOGY SERVICES LIMITED	4
346	TEJAS M	4PS20EC420	L&T TECHNOLOGY SERVICES LIMITED	4
347	ADARSH M S	4PS19EC002	L&T TECHNOLOGY SERVICES LIMITED	4
348	BHANUSHREE H R	4PS19EC025	L&T TECHNOLOGY SERVICES LIMITED	4
349	CHARITHA B.R	4PS19EC031	L&T TECHNOLOGY SERVICES LIMITED	4
350	HRUTHIK BHUSHAN HN	4PS19EC063	L&T TECHNOLOGY SERVICES LIMITED	4
351	MADAN H S	4PS19EC074	L&T TECHNOLOGY SERVICES LIMITED	4
352	NISARGA CD	4PS19EC095	L&T TECHNOLOGY SERVICES LIMITED	4
353	NISHA H M	4PS19EC096	L&T TECHNOLOGY SERVICES LIMITED	4
354	PAVAN H N	4PS19EC103	L&T TECHNOLOGY SERVICES LIMITED	4
355	ROHITH R	4PS19EC122	L&T TECHNOLOGY SERVICES LIMITED	4
356	SHUCHITHA V	4PS19EC143	L&T TECHNOLOGY SERVICES LIMITED	4
357	THEJASWINI M S	4PS19EC160	L&T TECHNOLOGY SERVICES LIMITED	4
358	VINAYAKA GADAKANAHALLI	4PS19EC172	L&T TECHNOLOGY SERVICES LIMITED	4
359	NITHIN N	4PS19EC177	L&T TECHNOLOGY SERVICES LIMITED	4
360	MOHEMED KHAN	4PS20EC411	L&T TECHNOLOGY SERVICES LIMITED	4
361	BHANUPRIYA C	4PS19EC024	KODNEST	3.5
362	VARUN S J	4PS19EC167	KODNEST	3.5
363	KARTHIK S	4PS19EC066	LIGHT & WONDER	8.76
364	RAKSHITHA M N	4PS19EC114	LIGHT & WONDER	8.76
365	SHALINI B M	4PS19EC133	LM WIND POWER	4.2
366	GOWTHAMI GOWDA H P	4PS19EC048	PROCSYS	5
367	LAKSHMI M	4PS19EC071	PROXYLERA	4
368	AHALYESH GOWDA	4PS19EC005	PROCSYS	5

369	RAKSHITH KS	4PS19EC113	MICROLAND	4
370	SHUBHA KV	4PS19EC142	PENTAGON SPACE	3.5
371	SUSHMITHA S	4PS19EC156	SKOLAR	6
372	TANYA R	4PS19EC158	RINEX TECHNOLOGIES PVT. LTD	4
373	MONIKA K	4PS19EC085	RINEX TECHNOLOGIES PVT. LTD	4
374	PANCHAMI MY	4PS19EC102	RINEX TECHNOLOGIES PVT. LTD	4
375	SAHANA H N	4PS19EC125	TALLY EDUCATION PRIVATE LIMITED	11.3
376	VINAY B S	4PS19EC170	VITESCO TECHNOLOGIES	6
377	PRANAV M S	4PS19EC105	VITESCO TECHNOLOGIES	6
378	SIDDESHPRASAD B_C	4PS19EC145	TCS NINJA	3.36
379	MUSARATH FATHIMA	4PS19EC088	UNSCHOOL	6.5
380	RAJESHWARI MACHRA	4PS19EC111	TRAVANCORE ANALYTICS	3
381	VINAY DG	4PS19EC171	TRAVANCORE ANALYTICS	3
382	DARSHINI M	4PS19EC036	X-WORKZ	3
383	HARSHA KUMAR GOWDA DK	4PS19EC053	X-WORKZ	3
384	ABHISHEK PRAKASH CHOUDHARY	4PS19EC001	X-WORKZ	3
385	DAYANANDA RAJE URS M R	4PS19EC037	X-WORKZ	3
386	SAHANA H S	4PS20EC416	X-WORKZ	3
387	D SHRIYANS DHRUV	4PS19IS017	6D TECHNOLOGIES	4
388	AMRITA PAUL	4PS19IS006	ACCENTURE	4.5
389	SK SAYANTANI	4PS19IS052	ACCENTURE	4.5
390	BHAVANI P L	4PS19IS013	ACCENTURE	4.5
391	GANGA C	4PS19IS022	ACCENTURE	4.5
392	GAYATHRI S R	4PS19IS023	ACCENTURE	4.5
393	ROHITH RM	4PS19IS045	ACCOLITE DIGTAL	6
394	D. SHRIYANS DHRUV	4PS19IS017	AXA XL	10
395	SAMARTH KATTI	4PS19IS047	AMADEUS INTERNSHIP	
396	SK SAYANTANI	4PS19IS052	BRILLIO	8.5
397	D SHRIYANS DHRUV	4PS19IS017	CAPGEMINI	4.25
398	MONISH M B K	4PS19IS036	CAPGEMINI	4.25
399	BHAVANA R	4PS19IS012	CMS COMPUTERS LIMITED	5.5
400	NIKITHA N	4PS19IS039	CAPGEMINI	4.25
401	SHREY GUPTA	4PS19IS050	CAPGEMINI	4.25
402	SKANDA B K	4PS19IS053	CAPGEMINI	4.25
403	YASHAS RAJ D	4PS19IS063	CAPGEMINI	4.25
404	RUCHITHA C P	4PS19IS046	CAPGEMINI	4.25
405	THEJESVAR V M	4PS19IS057	CAPGEMINI	4.25
406	AISHWARYA L	4PS19IS003	CAPGEMINI	4.25
407	KAVANA CHANDRA S	4PS19IS026	CAPGEMINI	4.25
408	SANGEETHA B S	4PS19IS048	CAPGEMINI	4.25
409	AMRITA PAUL	4PS19IS006	DXC TECHNOLOGY	4
410	SKANDA B K	4PS19IS053	DXC TECHNOLOGY	4

411	AKHILA B K	4PS19IS004	DXC TECHNOLOGY	4
412	MONISH M.B.K	4PS19IS036	GLOBAL LOGIC	5.5
413	NIKITHA N	4PS19IS039	GENC	4
414	YASHAS RAJ D	4PS19IS063	GENC	4
415	AKHILA B K	4PS19IS004	GENC	4
416	GAGANA M P	4PS19IS021	GENC	4
417	RAKESH SHARMA K	4PS19IS044	GENC	4
418	RUCHITHA C P	4PS19IS046	GENC	4
419	THEJESVAR V M	4PS19IS057	ELSEVIER	8.08
420	VIGHNESHA BHAKTA KP	4PS19IS062	GENC	4
421	M M AATIFULLA BAIG	4PS19IS001	GENC	4
422	NAVYA PRABHU KP	4PS19IS038	GENC	4
423	D. SHRIYANS DHRUV	4PS19IS017	ITC INFOTECH	4.25
424	AVIDA SHETTY MS	4PS19IS009	ITC INFOTECH	4.25
425	BHAVANA R	4PS19IS012	ITC INFOTECH	4.25
426	NS TINU REDDY	4PS19IS037	INTELLIPAAT	9
427	AKHILA B K	4PS19IS004	ITC INFOTECH	4.25
428	GAGANA M P	4PS19IS021	ITC INFOTECH	4.25
429	THEJESVAR V M	4PS19IS057	HASHEDIN TECHNOLOGIES	8.1
430	VIGHNESHA BHAKTA KP	4PS19IS062	ITC INFOTECH	4.25
431	HARSHITHA U	4PS20IS400	IMMENSPHERE	3.5
432	SUSHMITHA N	4PS20IS403	IMMENSPHERE	3.5
433	SHREY GUPTA	4PS19IS050	KODNEST	3.5
434	YASHASWINI K V	4PS19IS064	JOSH MITHRA	4
435	MONISH M.B.K	4PS19IS036	L&T TECHNOLOGY SERVICES LIMITED	4
436	AVIDA SHETTY MS	4PS19IS009	L&T TECHNOLOGY SERVICES LIMITED	4
437	DARSHAN M	4PS19IS018	L&T TECHNOLOGY SERVICES LIMITED	4
438	H P MANOJ	4PS19IS024	L&T TECHNOLOGY SERVICES LIMITED	4
439	SOHAN M SINGH	4PS19IS054	L&T TECHNOLOGY SERVICES LIMITED	4
440	NS TINU REDDY	4PS19IS037	SKOLAR	6
441	NISHANT NAYAN	4PS19IS040	SAMSUNG UI DEVELOPER	11
443	SAMARTH KATTI	4PS19IS047	SWYM	14
444	JYOTHI RAM	4PS19IS025	LIGHT & WONDER	8.76
445	MEGHANA R	4PS19IS033	SRICHID ACADEMY	5
446	KRUTHIKA H D	4PS20IS401	SRICHID ACADEMY	5
447	MOHAMMED SAQUIB	4PS19IS035	MERKLE SOKRATI	4
448	D. SHRIYANS DHRUV	4PS19IS017	VALTECH	6
449	MONISH M.B.K	4PS19IS036	TCS NINJA	3.36
450	LIKHITH P	4PS19IS030	TRICON INFOTECH	5.5
451	LIKHITH P	4PS19IS030	TCS DIGITAL	7.6
452	MOHAMMED FARHAN M	4PS19IS034	TRICON INFOTECH	6
453	MOHAMMED FARHAN M	4PS19IS034	TCS NINJA	3.36

454	GAGANA M P	4PS19IS021	TCS DIGITAL	7.6
455	RAKESH SHARMA K	4PS19IS044	TCS DIGITAL	7.6
456	RAKESH SHARMA K	4PS19IS044	WILEY EDGE	9
457	RUCHITHA C P	4PS19IS046	TCS DIGITAL	7.6
458	VIGHNESHA BHAKTA KP	4PS19IS062	VALTECH	6
459	BHAVANA K	4PS19IS011	VALTECH	6
460	VARSHINI K N	4PS19IS059	VALTECH	6
461	AKSHAY KUMAR	4PS19IS005	VOLLEY	
462	KRUTHIKA M	4PS19IS028	X-WORKZ	3
463	DEEPA K R	4PS19EE014	ACCENTURE	4.5
464	THEJAS H S	4PS19EE050	ACCENTURE	4.5
465	DEEPA K R	4PS19EE014	BYJU'S	7.5
466	PREETHI Y	4PS19EE034	BYJU'S	7.5
467	JAGADISH VK	4PS20EE403	CAMPALIN	4
468	SYED NIZAMUDDIN	4PS20EE410	CAMPALIN	4
469	AFIYA IRAM	4PS19EE002	CAMPALIN	4
470	TARUN H	4PS19EE049	CAMPALIN	4
471	MONIKA B MONIKA B	4PS19EE028	CAMPALIN	4
472	ARCHANA H	4PS19EE006	CAPGEMINI	4.25
473	ANUSHA B M	4PS19EE005	CAPGEMINI	4.25
474	SHILPA P U	4PS19EE045	CAPGEMINI	4.25
475	VAIBHAVI NAIDU S	4PS19EE051	CAPGEMINI	4.25
476	MONISHA S	4PS19EE029	CAPGEMINI	4.25
477	NISARGA K S	4PS19EE032	CAPGEMINI	4.25
478	MANJUNATH R	4PS19EE024	CAPGEMINI	4.25
479	MANJULA J	4PS20EE405	CAPGEMINI	4.25
480	ROHINI S	4PS19EE038	DIFACTO ROBOTICS AND AUTOMATION PVT LTD	3.2
481	SIDDARAJU H E	4PS19EE046	CMS COMPUTERS LIMITED	5.5
482	DEEPA K R	4PS19EE014	DXC TECHNOLOGY	4
483	DEEPASHREE B C	4PS19EE015	DXC TECHNOLOGY	4
484	JITHENDRA M	4PS19EE018	DXC TECHNOLOGY	4
485	KAVYA H S	4PS19EE020	DXC TECHNOLOGY	4
486	CHANDAN M	4PS20EE401	DXC TECHNOLOGY	4
487	SHILPA P U	4PS19EE045	EXIDE ENERGY SOLUTIONS LIMITED	5
488	HARSHITHA P M	4PS20EE402	EXIDE ENERGY SOLUTIONS LIMITED	5
489	SYED AWAYZ	4PS19EE048	EXIDE ENERGY SOLUTIONS LIMITED	5
490	CHANDAN M	4PS20EE401	EXIDE ENERGY SOLUTIONS LIMITED	5
491	NAVEEN K	4PS20EE408	EXIDE ENERGY SOLUTIONS LIMITED	5
492	DEEPA K R	4PS19EE014	GENC	4
493	ANUSHA B M	4PS19EE005	GENC	4
494	RAJENDRA PRASAD CM	4PS19EE035	GENC	4

495	CHANDANAHC	4PS19EE009	GENC	4
496	NISARGA K S	4PS19EE032	GENC	4
497	SURAJ KUMAR S	4PS19EE047	GENC	4
498	ABHISHEK S	4PS19EE001	GENC	4
499	MOHAMMED NAJATH	4PS19EE027	GENC	4
500	PRAMODINI S P	4PS20EE033	GENC	4
501	THEJAS H S	4PS19EE050	HEVO TECHNOLOGIES INDIA PRIVATE LIMITED	3
502	BHOOMIKA KN	4PS19EE008	HITACHI ENERGY: INTERNSHIP	1.44
503	REETHU M K	4PS19EE037	HITACHI ENERGY: INTERNSHIP	1.44
504	VAIBHAVI NAIDU S	4PS19EE051	IBM	4.5
505	SURAJ KUMAR S	4PS19EE047	IBM	4.5
506	SYED NIZAMUDDIN	4PS20EE410	INTELLIPAAT	9
507	CHANDRAMOULI V	4PS19EE010	IMMENSPHERE	3.5
508	DARSHAN H N	4PS19EE013	IMMENSPHERE	3.5
509	ARCHANA.H	4PS19EE006	JSW	9.5
510	ANUSHA	4PS19EE005	JSW	9.5
511	BHOOMIKA KN	4PS19EE008	JSW	9.5
512	YASHWANTH	4PS19EE052	JSW	9.5
513	THEJAS H S	4PS19EE050	ITC INFOTECH	4.25
514	AHALYA G	4PS19EE003	JOSH MITHRA	4
515	ARCHANA H	4PS19EE006	L&T TECHNOLOGY SERVICES LIMITED	4
516	RAJENDRA PRASAD CM	4PS19EE035	L&T TECHNOLOGY SERVICES LIMITED	4
517	VAIBHAVI NAIDU S	4PS19EE051	L&T TECHNOLOGY SERVICES LIMITED	4
518	CHETHAN .	4PS19EE012	L&T TECHNOLOGY SERVICES LIMITED	4
519	HANCHATE TRYAMBKESHWAR	4PS19EE017	L&T TECHNOLOGY SERVICES LIMITED	4
520	MEGHANA N	4PS19EE025	L&T TECHNOLOGY SERVICES LIMITED	4
521	NANDAN V H	4PS20EE407	L&T TECHNOLOGY SERVICES LIMITED	4
522	SURAJ R	4PS20EE409	L&T TECHNOLOGY SERVICES LIMITED	4
523	MONIKA B MONIKA B	4PS19EE028	RINEX TECHNOLOGIES PVT. LTD	4
524	HARSHITHA P M	4PS20EE402	RINEX TECHNOLOGIES PVT. LTD	4
525	KIRAN H S	4PS19EE022	RINEX TECHNOLOGIES PVT. LTD	4
526	SAHANA N	4PS19EE040	RINEX TECHNOLOGIES PVT. LTD	4
527	SHALINI MP	4PS19EE044	MCD BUILT ENVIRONMENT PVT LTD	2.5
528	JAGADISH VK	4PS20EE403	MCD BUILT ENVIRONMENT PVT LTD	2.5
529	MONISHA S	4PS19EE029	PENTAGON SPACE	3.5
530	ARCHANA H	4PS19EE006	TCS NINJA	3.36
531	RAJENDRA PRASAD CM	4PS19EE035	TCS NINJA	3.36

532	SHILPA P U	4PS19EE045	TCS NINJA	3.36
533	CHANDANA H_C	4PS19EE009	TCS NINJA	3.36
534	CHETHAN	4PS19EE012	TCS NINJA	3.36
535	PREETHI Y	4PS19EE034	UNSCHOOL	6.5
536	DHANUSH S	4PS19ME039	ALIENS GROUP	6
537	SRINIVAS M	4PS19ME110	ACCENTURE	4.5
538	ADITHYA N SHARMA	4PS19ME010	ACCENTURE	4.5
539	DHEERAJ N U	4PS19ME041	ACCENTURE	4.5
540	PAVAN S	4PS19ME079	AXISCADES	3.6
541	SHRIVATHSA ATHREYA S	4PS19ME108	AXISCADES	3.6
542	RAHUL C S	4PS20ME422	AXISCADES	3.6
543	ATULYA MILIND	4PS19ME021	CAMPALIN	4
544	MADAN K	4PS19ME064	CAMPALIN	4
545	NARASIMHA RAJU S	4PS19ME074	CAMPALIN	4
546	UMESH NAYKA	4PS19ME119	CAMPALIN	4
547	SHARATHKUMAR GUNDMI	4PS20ME426	BRAINSTORM INFOTECH	3
548	ADITHYA N SHARMA	4PS19ME010	BYJU'S	7.5
549	APOORVA M S	4PS19ME016	DXC TECHNOLOGY	4
550	NIKITHA B H	4PS19ME077	DXC TECHNOLOGY	4
551	SUMA DEVI M L	4PS20ME428	DIFACTO ROBOTICS AND AUTOMATION PVT LTD	3.2
552	VIJAY KUMAR R	4PS20ME435	DIFACTO ROBOTICS AND AUTOMATION PVT LTD	3.2
553	ADARSH	4PS19ME006	DIFACTO ROBOTICS AND AUTOMATION PVT LTD	3.2
554	SUSHMITHA S	4PS19ME116	DIFACTO ROBOTICS AND AUTOMATION PVT LTD	3.2
555	MANISH RAVINDRA PATTAR	4PS20ME415	EXIDE ENERGY SOLUTIONS LIMITED	5
556	VARUN R	4PS20ME433	EXIDE ENERGY SOLUTIONS LIMITED	5
557	ADARSH V	4PS19ME008	EXIDE ENERGY SOLUTIONS LIMITED	5
558	DHEERAJ N U	4PS19ME041	EXIDE ENERGY SOLUTIONS LIMITED	5
559	HARISH D	4PS19ME048	EXIDE ENERGY SOLUTIONS LIMITED	5
560	NARASIMHA RAJU S	4PS19ME074	EXIDE ENERGY SOLUTIONS LIMITED	5
561	ARYAN KUMAR SATHNUR SATHNUR	4PS19ME020	FEEDBACK POWER INTERNSHIP	2.76
562	KIRAN K T	4PS19ME061	FEEDBACK POWER INTERNSHIP	2.76
563	RAHUL K C	4PS19ME093	FEEDBACK POWER INTERNSHIP	2.76
564	SHRIDHAR H G	4PS19ME107	FEEDBACK POWER INTERNSHIP	2.76
565	CHANDANKUMAR B N	4PS20ME409	FEEDBACK POWER INTERNSHIP	2.76
566	SHIVAPRASAD H N	4PS20ME427	FEEDBACK POWER INTERNSHIP	2.76
567	PRUTHVI N	4PS19ME089	FEEDBACK POWER INTERNSHIP	2.76

568	PRASHANTH S	4PS19ME087	GENC	4
569	VARUN R	4PS20ME433	GENC	4
570	ADARSH V	4PS19ME008	GENC	4
571	ADITHYA N SHARMA	4PS19ME010	GENC	4
572	CHANDAN N	4PS19ME029	GENC	4
573	GURUMALLESH M S	4PS19ME047	GENC	4
574	HARISH D	4PS19ME048	GENC	4
575	AJAY KATLER	4PS20ME400	HANAM ELECTRICITY INDIA PVT LTD	1.8
576	MAHESHA M	4PS20ME414	HITACHI ENERGY: INTERNSHIP	1.44
577	ABHIJITH ABHI	4PS19ME001	ITC- LIMITED	4.25
578	BHAGAVATHI PRASAD D	4PS19ME024	ITC- LIMITED	4.25
579	KUSMITH KUMAR M P	4PS19ME063	IMMENSPHERE	3.5
580	POOJASHREE L S	4PS19ME081	IMMENSPHERE	3.5
581	CHANDAN D J	4PS20ME408	IMMENSPHERE	3.5
582	LAKSHMIKANTHA D M	4PS20ME413	IMMENSPHERE	3.5
583	R JINASHARAN	4PS20ME421	IMMENSPHERE	3.5
584	SHARATH J	4PS20ME425	IMMENSPHERE	3.5
585	YOGESHWARI H N	4PS20ME439	IMMENSPHERE	3.5
586	SUMANTH P	4PS19ME113	JOSH MITHRA	4
587	RAVI KUMAR S	4PS19ME098	JSW	9.5
588	KARTHIK	4PS19ME058	JSW	9.5
589	SHRESTA	4PS19ME105	JSW	9.5
590	ADARSH B M	4PS19ME007	L&T TECHNOLOGY SERVICES LIMITED	4
591	ADARSH V GOPAL	4PS19ME009	L&T TECHNOLOGY SERVICES LIMITED	4
592	ANIL V	4PS19ME013	L&T TECHNOLOGY SERVICES LIMITED	4
593	ARKESH S	4PS19ME017	L&T TECHNOLOGY SERVICES LIMITED	4
594	B. K. MANOJ GOWDA	4PS19ME022	L&T TECHNOLOGY SERVICES LIMITED	4
595	GIRIPRASAD M S	4PS19ME045	L&T TECHNOLOGY SERVICES LIMITED	4
596	RUDRAKANTH HM	4PS19ME100	L&T TECHNOLOGY SERVICES LIMITED	4
597	YASHWANTH P	4PS19ME133	L&T TECHNOLOGY SERVICES LIMITED	4
598	BASAVANNA S	4PS20ME403	L&T TECHNOLOGY SERVICES LIMITED	4
599	PAVAN H V	4PS20ME419	L&T TECHNOLOGY SERVICES LIMITED	4
600	HARISH D	4PS19ME048	L&T TECHNOLOGY SERVICES LIMITED	4
601	KARTHIK KN	4PS19ME058	L&T TECHNOLOGY SERVICES LIMITED	4
602	SHRESTA T R	4PS19ME105	L&T TECHNOLOGY SERVICES LIMITED	4

603	SHREYAS K R	4PS19ME106	KEYLYNK	3
604	THASHWIN SP	4PS20ME431	KEYLYNK	3
605	YASHWANTH K R	4PS20ME438	KEYLYNK	3
606	SHADAKSHARA ARYA BT	4PS19ME101	KEYLYNK	3
607	BHANUPRAKASH K R	4PS20ME405	PENTAGON SPACE	3.5
608	ADARSH	4PS19ME006	PENTAGON SPACE	3.5
609	SUSHMITHA S	4PS19ME116	PENTAGON SPACE	3.5
610	SUSHMITHA S	4PS19ME116	LM WIND POWER	4.2
611	BASAWARAJ SHERIKAR	4PS20ME404	LM WIND POWER	4.2
612	VINAYKUMAR C P	4PS18ME098	RINEX TECHNOLOGIES PVT. LTD	4
613	ANUSHREE N R	4PS19ME015	RINEX TECHNOLOGIES PVT. LTD	4
614	ARUNGOWDA V	4PS19ME018	QUEST GLOBAL	3
615	MOHAMMED FUZAIL	4PS20ME416	QUEST GLOBAL	3
616	PRAJWAL K S	4PS19ME085	RINEX TECHNOLOGIES PVT. LTD	4
617	PRUTHVI N	4PS19ME089	SACHA ENGINEERING PVT LTD	3.3
618	DIVAKARA K M	4PS19ME043	SKOLAR	6
619	MANOJ M	4PS19ME069	SKOLAR	6
620	PRAJWAL K S	4PS19ME085	SKOLAR	6
621	MAHESHA M	4PS20ME414	TCS NINJA	3.36
622	GURUMALLESH M S	4PS19ME047	TCS NINJA	3.36
623	ANUP C K ANUP	4PS19ME014	TATA TECHNOLOGIES	5.5
624	CHANDAN N	4PS19ME029	TATA TECHNOLOGIES	5.5
625	GOWTHAM G	4PS19ME046	WIPRO INFRA	3
626	VARUN S U	4PS19ME120	WIPRO INFRA	3
627	VINAY KUMAR S	4PS19ME124	WIPRO INFRA	3
628	YASHVANTH H	4PS19ME131	WIPRO INFRA	3
629	BASAVANNA M	4PS20ME402	WIPRO INFRA	3
630	BASAVANNA S	4PS20ME403	WIPRO INFRA	3
631	CHETHAN R S	4PS20ME411	WIPRO INFRA	3
632	SURESH PUJARI	4PS20ME430	WIPRO INFRA	3
633	J.B BHOOMIKA	4PS19ME025	WIPRO INFRA	3
634	PRAJWAL K S	4PS19ME085	WIPRO INFRA	3
635	PRUTHVI N	4PS19ME089	WIPRO INFRA	3
636	PRUTHVIK K	4PS19ME090	WIPRO INFRA	3
637	SHADAKSHARA ARYA BT	4PS19ME101	WIPRO INFRA	3
638	SHREYAS K R	4PS19ME106	WIPRO INFRA	3
639	SUHAS GOWDA CP	4PS19ME112	WIPRO INFRA	3
640	UMESH NAYKA	4PS19ME119	WIPRO INFRA	3
641	VEERESH K S	4PS19ME121	WIPRO INFRA	3
642	AKSHAY S	4PS20ME401	WIPRO INFRA	3
643	SUSHMITHA S	4PS19ME116	X-WORKZ	3
644	APOORVA S	4PS19IP001	GENC	4
645	APOORVA S	4PS19IP001	DXC TECHNOLOGY	4
646	ASHWINI MS	4PS19IP002	DXC TECHNOLOGY	4
647	SWATHI P	4PS19IP014	DXC TECHNOLOGY	4

648	SIDDALINGA A INDI	4PS18IP023	IMMENSPHERE	3.5
649	MONISH ARADHYA	4PS19IP007	INTELLIPAAT	9
650	SUSHITHA M H	4PS19IP013	IMMENSPHERE	3.5
651	SUSHITHA M H	4PS19IP013	LM WIND POWER	4.2
652	YASHU N	4PS19IP015	LM WIND POWER	4.2
653	MANASA D R	4PS19IP005	SACHA ENGINEERING PVT LTD	3.3
654	MONISH ARADHYA	4PS19IP007	RINEX TECHNOLOGIES PVT. LTD	4
655	SUSHITHA M H	4PS19IP013	X-WORKZ	3
656	KENNETH J CHRISTOPHER	4PS19AU011	ACCENTURE	4.5
657	SRIRANGANAYAKA T	4PS19AU018	BYJU'S	7.5
658	SUYOG CARIAPPA P C	4PS19AU020	DXC TECHNOLOGY	4
659	SYEDA KAREENA SAROOSH	4PS19AU022	GENC	4
660	SYEDA KAREENA SAROOSH	4PS19AU022	LM WIND POWER	4.2
661	AKSHITHA B G	4PS20AU400	LM WIND POWER	4.2
662	SAGAR K	4PS20AU407	INTELLIPAAT	9
663	ABHISHEK DOGRA	4PS19AU002	RINEX TECHNOLOGIES PVT. LTD	4
664	KENNETH J CHRISTOPHER	4PS19AU011	SKOLAR	6
665	MITHUN SURYA S K	4PS19AU013	UNSCHOOL	6.5
666	SYEDA KAREENA SAROOSH	4PS19AU022	MERKLE SOKRATI	3.5
667	TEJAS REDDY R	4PS19AU023	TCS NINJA	3.36
668	VIJAY KUMAR K V	4PS19AU024	WHEELS WISDOM	2.75
669	SAGAR K	4PS20AU407	WHEELS WISDOM	2.75
670	DELISHA D SOUZA	4PS19CV017	ACCENTURE	4.5
671	KUSUMANJALI T S	4PS19CV045	GENC	4
672	DELISHA D SOUZA	4PS19CV017	GENC	4
673	SYED ABU SUFIYAN	4PS20CV422	FEEDBACKINFRA	5
674	RAMYA S	4PS19CV074	FEEDBACKINFRA	5
675	RAHUL MS	4PS19CV069	FEEDBACKINFRA	5
676	SRIKANTH N	4PS19CV420	FEEDBACKINFRA	5
677	THEJAS BS	4PS19CV096	FEEDBACKINFRA	5
678	CHINTHANA N	4PS19CV012	FEEDBACKINFRA	5
679	SINCHAN HP	4PS19CV087	FEEDBACKINFRA	5
680	DEEPA C D	4PS19CV016	DXC TECHNOLOGY	4
681	DELISHA D SOUZA	4PS19CV017	DXC TECHNOLOGY	4
682	DIVYA D	4PS19CV019	DXC TECHNOLOGY	4
683	GEETHASHREE D P	4PS19CV023	DXC TECHNOLOGY	4
684	HARSHA S GOWDA	4PS19CV024	DXC TECHNOLOGY	4
685	KEERTHANA AY	4PS19CV040	DXC TECHNOLOGY	4
686	KUSUMANJALI T S	4PS19CV045	DXC TECHNOLOGY	4
687	MADHUSHREE K N	4PS20CV412	DXC TECHNOLOGY	4
688	RAKSHITHA MS	4PS19CV073	DXC TECHNOLOGY	4
689	RAMYA S	4PS19CV074	DXC TECHNOLOGY	4

690	SINCHANA HP	4PS19CV087	DXC TECHNOLOGY	4
691	SNEHA C	4PS19CV090	DXC TECHNOLOGY	4
692	YASHASWI N	4PS19CV107	DXC TECHNOLOGY	4
693	SINCHANA HP	4PS19CV087	CAPGEMINI	4.25
694	KUSUMANJALI T S	4PS19CV045	CAPGEMINI	4.25
695	DELISHA D SOUZA	4PS19CV017	CAPGEMINI	4.25
696	KEERTHANA AY	4PS19CV040	RINEX TECHNOLOGIES PVT. LTD	4
697	RAKSHITHA C	4PS19CV072	RINEX TECHNOLOGIES PVT. LTD	4
698	SINDHU R	4PS19CV088	RINEX TECHNOLOGIES PVT. LTD	4
699	MADAN C S	4PS19CV049	B.L. KASHYAP & SONS LTD.	4
700	SYED ABU SUFIYAN	4PS20CV422	B.L. KASHYAP & SONS LTD.	4
701	T MOHAMMED ZEESHAN	4PS20CV423	B.L. KASHYAP & SONS LTD.	4
702	RAMYA S	4PS19CV074	B.L. KASHYAP & SONS LTD.	4
703	ABHISHEK M	4PS20CV400	B.L. KASHYAP & SONS LTD.	4
704	SACHIN DS	4PS19CV077	B.L. KASHYAP & SONS LTD.	4
705	VINAY KUMAR B	4PS19CV103	B.L. KASHYAP & SONS LTD.	4
706	ROJA C S	4PS20CV418	B.L. KASHYAP & SONS LTD.	4
707	KARTHIK S	4PS19CV038	B.L. KASHYAP & SONS LTD.	4
708	SATHISHKUMAR N	4PS19CV082	B.L. KASHYAP & SONS LTD.	4
709	NISHANTH GOWDA_Y_P	4PS19CV058	B.L. KASHYAP & SONS LTD.	4
710	GOWRI S KOTABAGI	4PS20CV407	B.L. KASHYAP & SONS LTD.	4
711	CHANDANA CB	4PS20CV405	B.L. KASHYAP & SONS LTD.	4
712	KANNIKA J	4PS20CV409	B.L. KASHYAP & SONS LTD.	4
713	BASAPPA M D	4PS20CV402	B.L. KASHYAP & SONS LTD.	4
714	GOWRAV D G	4PS20CV406	B.L. KASHYAP & SONS LTD.	4
715	SINDHU R	4PS19CV088	B.L. KASHYAP & SONS LTD	4
716	MANJUNATHAGOWDA B.S	4PS20CV413	B.L. KASHYAP & SONS LTD.	4
717	GEETHASHREE D P	4PS19CV023	B.L. KASHYAP & SONS LTD.	4
718	MADHUSHREE K N	4PS20CV412	B.L. KASHYAP & SONS LTD.	4
719	VINAY R	4PS20CV425	B.L. KASHYAP & SONS LTD.	4
720	MADAN C S	4PS19CV049	JSW	9.5
721	HARSHA S GOWDA	4PS19CV024	JSW	9.5
722	THEJAS BS	4PS19CV096	JSW	9.5
723	SUDEEP KS	4PS19CV091	JSW	9.5
724	KEERTHANA AY	4PS19CV040	CAMPALIN	4
725	SANIYA MAHEEN	4PS19CV081	CAMPALIN	4
726	RAKSHITHA C	4PS19CV072	CAMPALIN	4
727	TEJASHWINI M	4PS19CV093	CAMPALIN	4
728	SANIYA MAHEEN	4PS19CV081	INTELLIPAAT	9
729	KEERTHANA AY	4PS19CV040	SKOLAR	6
730	RAKSHITHA C	4PS19CV072	SKOLAR	6
731	PALLAVI N MURTHY	4PS19CV063	AMERIGO	1.44
732	BHOOMIKA GOWDA	4PS20CV403	AMERIGO	1.44
733	NAZIMA ANJUM	4PS20CV415	AMERIGO	1.44
734	SHARMILA S A	4PS19CV083	AMERIGO	1.44

735	RAMYA S	4PS19CV074	AGRIMA ROOF & FACADE SYSTEMS	3.6
736	KEERTHANA H U	4PS19CV041	AGRIMA ROOF & FACADE SYSTEMS	3.6
737	BHARATH SC	4PS19CV007	AGRIMA ROOF & FACADE SYSTEMS	3.6
738	KEERTHANA AY	4PS19CV040	AGRIMA ROOF & FACADE SYSTEMS	3.6
739	SANIYA MAHEEN	4PS19CV081	AGRIMA ROOF & FACADE SYSTEMS	3.6
740	NIKSHIPTHA T N	4PS19CV057	AGRIMA ROOF & FACADE SYSTEMS	3.6
741	SRIKANTH N	4PS20CV420	AGRIMA ROOF & FACADE SYSTEMS	3.6
742	RAKSHITHA C	4PS19CV072	AGRIMA ROOF & FACADE SYSTEMS	3.6
743	HARSHITHA J	4PS19CV027	AGRIMA ROOF & FACADE SYSTEMS	3.6
744	RAKSHITHA MS	4PS19CV073	AGRIMA ROOF & FACADE SYSTEMS	3.6
745	SINDHU R	4PS19CV088	AGRIMA ROOF & FACADE SYSTEMS	3.6
746	RAKESH B M	4PS19CV070	AGRIMA ROOF & FACADE SYSTEMS	3.6
747	MADHUSHREE K N	4PS20CV412	AGRIMA ROOF & FACADE SYSTEMS	3.6
748	SUDEEP KS	4PS19CV091	AGRIMA ROOF & FACADE SYSTEMS	3.6
749	NAMITHA SM	4PS19CV055	KEYLYNK	3
750	VARSHA N	4PS19CV099	KEYLYNK	3
751	PALLAVI N MURTHY	4PS19CV063	KEYLYNK	3
752	THRUPTHI V J	4PS19CV097	KEYLYNK	3
753	RAKESH B M	4PS19CV070	KEYLYNK	3
754	SONIKA D	4PS20CV419	KEYLYNK	3
755	DASPRASAD	4PS19CV014	AARBEE STRUCTURES PVT LTD 2023	3
756	SHREYAS V	4PS19CV086	AARBEE STRUCTURES PVT LTD 2023	3
757	MANASA S	4PS19CV052	AARBEE STRUCTURES PVT LTD 2023	3
758	SHARMILA S A	4PS19CV083	AARBEE STRUCTURES PVT LTD 2023	3
759	CHINTHANA N	4PS19CV012	JOSH MITHRA	4
760	NAMITHA SM	4PS19CV055	BRAINSTORM INFOTECH	3
761	HARSHITHA R	4PS19CV028	BRAINSTORM INFOTECH	3
762	KARTHIK K P	4PS19CV036	BRAINSTORM INFOTECH	3
763	BHARATH SC	4PS19CV007	BRAINSTORM INFOTECH	3
764	ANUSHA N	4PS19CV002	BRAINSTORM INFOTECH	3
765	BHOOMIKA GOWDA	4PS20CV403	BRAINSTORM INFOTECH	3

766	NAZIMA ANJUM	4PS20CV415	BRAINSTORM INFOTECH	3
767	CHINTHANA N	4PS19CV012	BRAINSTORM INFOTECH	3
768	YASHWANTH D_R	4PS19CV109	IMARTICUS	5
769	KEERTHANA N	4PS19CV042	IMMENSPHERE	3.5
770	DARSHAN P URS	4PS19CV013	IMMENSPHERE	3.5
771	DARSHAN P URS	4PS19CV013	X-WORKZ	3
772	NIKSHIPTHA T N	4PS19CV057	X-WORKZ	3
773	KRUTHIKA GV	4PS21MC023	ACCENTURE	4.5
774	RUTHIK Y	4PS21MC044	ACCENTURE	4.5
775	NITHYASHREE R	4PS21MC034	CAMPALIN	4
776	SHREYASWINI N	4PS21MC048	CAMPALIN	4
777	SIDDANTH HALDANKAR	4PS21MC049	CAMPALIN	4
778	HARSHITHA A S	4PS21MC015	CAPGEMINI	4.25
779	HARSHITHA H	4PS21MC016	CAPGEMINI	4.25
780	RAKSHITH KUMAR A	4PS21MC042	CAPGEMINI	4.25
781	RASHMITHA R	4PS21MC043	CAPGEMINI	4.25
782	SUPRITHA M	4PS21MC051	CAPGEMINI	4.25
783	SUSHMA RAJ M Y	4PS21MC052	CAPGEMINI	4.25
784	THEJAS K	4PS21MC054	CAPGEMINI	4.25
785	VYBHAV S	4PS21MC058	CAPGEMINI	5.75
786	VISHANK B R	4PS21MC056	DAIMLER TRUCK INNOVATION CENTER INDIA PRIVATE LIMITED	10
787	HARSHITHA H	4PS21MC016	GENC	4
788	KRUTHIKA GV	4PS21MC023	GENC	4
789	MADHUNEELA N R	4PS21MC026	GENC	4
790	VYBHAV S	4PS21MCO58	GENC	4
791	VYBHAV S	4PS21MC058	GENC	4
792	ANANTHA KRISHNA HR	P20MCA005	INTELLIPAAT	9
793	AISHWARYA N	4PS21MC002	JOSH MITHRA	4
794	NIVEDITHA H D	4PS21MC035	JOSH MITHRA	4
795	PURUSHOTHAM GANGULY	4PS21MC040	JOSH MITHRA	4
796	MAHENDRA H L	4PS21MC028	QSPDIER	3
797	HEMANTH KUMAR N	4PS21MC018	QSPDIER	3
798	MAHALASHMI K R	4PS21MC027	QSPDIER	3
799	NIVEDIHTA H D	4PS21MC035	QSPDIER	3
800	SHREYASWINI N	4PS21MC048	QSPDIER	3
801	YASHWANTH GOWDA K M	4PS21MC059	QSPDIER	3
802	ANANTHA KRISHAN K R	P20MCA005	QSPDIER	3
803	SHREYASWINI N	4PS21MC048	RINEX TECHNOLOGIES PVT. LTD	4
804	SIDDANTH HALDANKAR	4PS21MC049	RINEX TECHNOLOGIES PVT. LTD	4
805	ANANTHA KRISHNA HR	P20MCA005	SKOLAR	6
806	NITHYASHREE R	4PS21MC034	SRICHID ACADEMY	5
807	AKSHITHA J	4PS21MC004	SYSFORE TECHNOLOGIES	3

808	CHIRAG S	4PS21MC008	SYSFORE TECHNOLOGIES	3
809	DEEKSHITH U V	4PS21MC009	SYSFORE TECHNOLOGIES	3
810	JAYA KUMAR	4PS21MC020	SYSFORE TECHNOLOGIES	3
811	KAVANA H S	4PS21MC022	SYSFORE TECHNOLOGIES	3
812	LAVANYA R	4PS21MC024	SYSFORE TECHNOLOGIES	3
813	MEGHANA N	4PS21MC030	SYSFORE TECHNOLOGIES	3
814	NITHIN M L	4PS21MC033	SYSFORE TECHNOLOGIES	3
815	SAGAR C J	4PS21MC045	SYSFORE TECHNOLOGIES	3
816	SUHAS S	4PS21MC050	SYSFORE TECHNOLOGIES	3
817	E HEMANTH NAGESH	4PS21MC010	TCS NINJA	3.36
818	GOUTHAM D R	4PS21MC013	TCS NINJA	3.36
819	MADHUNEELA N R	4PS21MC026	TCS NINJA	3.36
820	NIVEDITHA S K	4PS21BA032	RINEX TECHNOLOGIES PVT. LTD	4
821	SHYNA MARY A	4PS21BA047	RINEX TECHNOLOGIES PVT. LTD	4
822	AMRUTH RAJ G P	4PS21BA001	SUTHERLAND	3
823	DARSHAN N	4PS21BA011	SUTHERLAND	3
824	JEEVAN KUMAR K M	4PS21BA016	SUTHERLAND	3
825	KAMPANA M	4PS21BA017	SUTHERLAND	3
826	NEHA SHREE N.M	4PS12BA027	SUTHERLAND	3
827	SANJAY GOWDA G A	4PS21BA043	SUTHERLAND	3
828	THANMAYE HS	4PS21BA055	SUTHERLAND	3
829	VINITH H	4PS21BA059	SUTHERLAND	3
830	NIVEDITHA S K	4PS21BA032	SUTHERLAND	3
831	VINITH H	4PS21BA059	HFFC	6
832	VN CHIRAG	4PS21BA057	HFFC	6
833	ANU. HK	4PS21BA002	SHRIRAM LIFE INSURANCE,	3.5
834	JEEVAN KUMAR K M	4PS21BA016	SHRIRAM LIFE INSURANCE,	3.5
835	KAMPANA M	4PS21BA017	SHRIRAM LIFE INSURANCE,	3.5
836	KARTHIK M	4PS21BA018	SHRIRAM LIFE INSURANCE,	3.5
837	KULSUM ALI S	4PS21BA019	SHRIRAM LIFE INSURANCE,	3.5
838	PADMASHREE Y	4PS21BA033	SHRIRAM LIFE INSURANCE,	3.5
839	PRAJWAL GOWDA T R	4PS21BA034	SHRIRAM LIFE INSURANCE,	3.5
840	PRIYANKA M	4PS21BA039	SHRIRAM LIFE INSURANCE,	3.5
841	SHWETHA C	4PS21BA046	SHRIRAM LIFE INSURANCE,	3.5
842	THANMAYE HS	4PS21BA055	SHRIRAM LIFE INSURANCE,	3.5
843	TRISHA S K	4PS21BA056	SHRIRAM LIFE INSURANCE,	3.5
844	KARTHIK M	4PS21BA0	AAVAS FINANCIERS LIMITED	2.5
845	NIVEDITHA	4PS21BA032	NJ INDIA INVEST PVT.LTD	5.78
846	JEEVAN	4PS21BA016	NJ INDIA INVEST PVT.LTD	6.2
847	RAKSHITHA CS	4PS21BA040	INVESTOSURE	5
848	TEJASHREE K B	4PS21BA054	INVESTOSURE	5
849	SANJAY GOWDA G A	4PS21BA043	INVESTOSURE	5
850	THANMAYE HS	4PS21BA055	INVESTOSURE	5
851	JEEVAN KUMAR K M	4PS21BA016	INVESTOSURE	5
852	KAMPANA M	4PS21BA017	INVESTOSURE	5

853	NIVEDITHA S K	4PS21BA032	INVESTOSURE	5
854	MEGHANA P M	4PS21BA025	INVESTOSURE	5
855	SUDARSHAN L	4PS21BA050	INVESTOSURE	5
856	IMPANA.K.S	4PS21BA015	INVESTOSURE	5
857	GOWTHAMI P	4PS21BA013	INVESTOSURE	5
858	VISHNU V BHAT	4PS21CCS12	KEYLYNK BUSINESS CONSULTING PVT LTD.	3
859	CHIRAG R	4PS21CCS04	KEYLYNK BUSINESS CONSULTING PVT LTD.	3
860	RAJKISHOR G S	4PS21CCS07	KEYLYNK BUSINESS CONSULTING PVT LTD.	3
861	ROHITH R	4PS21CCS08	KEYLYNK BUSINESS CONSULTING PVT LTD.	3