

1. Faculty Handbook
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Faculty Handbook

Vidyalankar Institute of Technology
Vidyalankar Educational Campus, Wadala-E, Mumbai 400037

The Institute recognizes that its staff is its most valuable asset. The Institute is committed to the personal and professional development of all staff. Providing opportunities for faculty development is a high priority of the Institute. Enriching and advancing faculty members' skills in instruction, research, advising and administration are fundamentally important for the continued excellence of the Institute.

This handbook is prepared to spread our motive in;

*Development of Faculty as a **Scholar***

*Development of Faculty as a **Teacher***

*Development of Faculty as a **Person***

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Vision

To be a globally recognized engineering institute where learners are nurtured in a scholarly environment to evolve into competent professionals and researchers to benefit society.

Mission

- Evolve a curriculum which emphasizes on strong engineering fundamentals with the flexibility to choose advanced courses of interest and gain exposure to tools and techniques in contemporary subjects.
- Encourage a teaching-learning process in which highly competent faculty share a symbiotic association with the institutes of repute.
- Facilitate creation and dissemination of knowledge through a digitally-enabled learning environment.
- Develop academic and infrastructural facilities with modern equipment and other learning resources and encourage reciprocal sharing with other institutes through networking.
- Establish a centre of excellence to enhance academia – industry partnership and work on collaborative projects

Qualifications & experience

The minimum qualifications, experience and other requirements of the faculty members at various levels shall be as follows:

Program & Cadre	Qualifications	Experience
Engg/Tech Assistant Professor	BE / B Tech and ME / M Tech in relevant subject with First Class or equivalent either in BE / B Tech or ME / M Tech	2 years relevant Experience is desirable.
Management Assistant Professor	First Class or equivalent in Masters Degree in Business Administration or equivalent	2 years relevant Experience is desirable.
Engg/Tech Management Associate Professor	Qualification as above that is for the post of Assistant Professor, as applicable and PhD or equivalent, in appropriate discipline Post PhD publications and guiding PhD student is highly desirable.	Minimum of 5 years experience in teaching and/or research and/or industry of which at least 2 years shall be post PhD is desirable.
Engg/Tech Management Professor	Qualifications as above that are for the post of Associate Professor, as applicable. Post PhD publications and guiding PhD students is highly desirable	minimum of 10 years teaching and/or research and/or industrial experience of which at least 5 years should be at the level of Associate Professor. or minimum of 13 years experience in teaching and/ or Research and/or Industry. In case of research experience, good academic record and books/research paper publications/IPR/patents record shall be required as deemed fit by the expert members in Selection committee. If the experience in industry is considered, the same shall be at managerial level equivalent to Associate Professor

		with active participation record in devising/designing, planning, executing, analyzing, quality control, innovating, training, technical books/research paper publications/IPR/patents, etc. as deemed fit by the expert members in Selection committee.
Engg/Tech Management Adjunct Faculty	Masters degree in relevant field	As deemed fit
Humanities & Science Assistant Professor	Masters degree with first class in relevant subject	-

Conditions stated above shall be subject to change as per latest norms by governing body / authorities.

Roles of the Faculty Members

Faculty is the backbone of Vidyalankar Institute of Technology. Every step is taken to keep the faculty motivated and focused on achieving excellence. The faculty members shall have the following responsibilities

Academic Responsibilities

- a. Class Room Instruction
- b. Laboratory instruction
- c. Curriculum Development
- d. Developing learning resource material for classroom and lab instruction.
- e. Student assessment & evaluation including examination work of Institute.
- f. Participation in co-curricular & extra-curricular activities.
- g. Student guidance, counseling & helping in development of personal, ethical, moral and overall character.
- h. Continuing Education Activities.

- i. Keeping abreast of new knowledge & skills, help generate new knowledge and disseminate such knowledge through books, publications etc.
- j. Self development through upgrading qualification, experience & professional activities.

Research and Development activities

- a. Research & Development activities & Research guidance.
- b. Sourcing Industry sponsored projects.
- c. Providing Consultancy and Testing Services.
- d. Promotion of Industry -institution interaction and R&D.

Academic Administration

- a. Policy Planning, Monitoring & evaluation and promotional activities both at Departmental and institutional level
- b. Design and development of new modules
- c. Preparing project proposals for funding in areas of R&D work, Laboratory development, Modernization, Expansion etc.
- d. Administration both at Departmental & Institutional level.
- e. Development, Administration and management of institutional facilities.
- f. Monitoring and Evaluation for Academic and research activities.
- g. Participation in policy planning at the Regional/ National level for development of technical education.
- h. Plan and implement staff development activities.
- i. Maintain accountability
- j. Conduct Performance Appraisal

Extension services

- a. Interaction with industry and society.
- b. Providing Non R&D support and consultancy services to industry and other User agencies.
- c. Providing non-formal modes of education for the benefit of the community
- d. Promotion of entrepreneurship and job creation
- e. Dissemination of knowledge to anyone seeking knowledge.
- f. Providing technical support in areas of social relevance.

All staff members are expected to be vigilant in maintaining utmost discipline and upkeep at the Institute. Faculty members are also expected to arrange / contribute in Community Social Responsibility activities for the benefit of all.

Faculty Teaching Hours

Teacher is an important asset of the Institute. It is also important that teachers disseminate maximum for the benefit of the students. Hence, Vidyalankar Institute of Technology believes that teacher shall utilize every hour and minute for complying to all the necessities of students. In this respect following table shall be read as mere indicator and not as norm.

Cadre	No. of Teaching Hours per week	Student Mentoring
Professor	08	Yes
Associate Professor	12	Yes
Assistant Professor	16	Yes

Faculty Development

VIT places highest importance for updating of knowledge of the faculty members. The Principal shall draw up plans for development of individual faculty members and groups of faculty members. The plans may include:

Individual faculty development plans:

- a. Deputation of the faculty members for short / long term programs outside VIT.
- b. Enrollment for online certification programs.
- c. Participation in seminars and workshops - domestic and international.
- d. Publication of articles in indexed journals.

- e. Deputation for faculty development programs in and outside VIT.\

Group faculty development programs:

- a. Conduct of seminars and workshops in VIT.
b. Conduct of faculty development programs at VIT

Deputation / Sponsorship

The Institute recognizes need of all along and continuous staff development. This is important considering rapid changes in technology and industry expectations. The Institute believes that a teacher who is well versed with and practices latest technology can only produce graduates suitable for industry. Vidyalankar Institute of Technology encourages and supports its staff members in acquiring the latest skills through various modes.

Teaching staff members who have completed one year of continuous service as on 1st April shall be eligible for seeking benefits to pursue further study / teaching / research / industry training, etc. Following table gives guidelines on this aspect.

Perusing PhD	Deputation with leave
Attending STTPs/Conferences/Workshops/Training, etc.	Deputation with sponsorship & leave
Paper publications	Sponsorship
Visit to Institute/organization/Industry of National/International repute	Deputation with sponsorship & leave
Membership of Professional Institutions	Sponsorship
Filing patent	Sponsorship
Enrollment for online certification programs	Sponsorship

For more information one can refer “Professional membership/STTP/Paper publications sponsorship policy” of the Institute.

Technical Consulting / Training Activities – Revenue Generation Activities

Vidyalankar Institute of Technology encourages all staff members to pursue technical consulting / training activities with the Industry/society/government bodies, etc. with primary motive of revenue generation to support Institute expenditure to lower student fee component.

The faculty member pursuing the consulting project may use the following resources of the Institute.

- Classrooms & laboratory infrastructure
- Library
- Secretarial assistance
- ICT, Reprographic facilities
- Students

Principal shall allot the consulting assignment received to one or more staff members.

The revenues arising out of the consulting assignment shall be shared generally in the following manner after deducting all the expenses.

	Institute share	Faculty share
Type I Model - a project where the project uses the infrastructure of an institute	50%	50%
Type II Model - a project where the project does not use the infrastructure of an institute	30%	70%

For more information one can refer “Technical Consultancy Activity policy” of the Institute.

Faculty Performance Evaluation / Faculty Appraisal

Faculty performance shall be evaluated every semester on various aspect stated in Staff Diary designed by the Institute.

Student Feedback

Vidyalankar Institute of Technology believes in student centric approach. Student being our 'Customer', the Institute aims for 'Customer delight' in each and every activity. Hence student feedback becomes integral part of the process.

The Institute has designed student feedback form which is based on following aspects.

Subject knowledge, depth with update

Teaching delivery methodology - modern tools used

Activities undertaken - its completion with clarity and quality

Punctuality, effective communication and support/mentoring

Research & Development

The Institute recognizes need of research & development activities. Vidyalankar Institute of Technology being an engineering Institute, emphasizes on applied research and product development. Every staff member of the Institute shall participate one or more activities given below and also inculcate the same in every student of the Institute.

Technical Paper / Book publications

Poster making / survey

Product design / development

Creation of laboratory / Incubation laboratory in future technology

Final year projects / mini projects

Participation/collaboration with external professional body activities

R&D activities, papers & books publications, IPR activities, administrative activities and support for co/extra-curricular activities by teachers is a must. More the engagement, more the benefit. Once again, following table may be read as mere guideline on expectations in this respect.

Cadre	No. of publications per semester	No. of hours for guiding research	No. of hours per week for academic administration
Professor	4	12	12
Associate Professor	2	9	9
Assistant Professor	1	2	4

Vidyalankar Institute of Technology believes that technologies are born at the academic Institutes. And hence strongly wishes to design, develop and deliver 'salable products' to industry.

Contribution in Institute Committees

The Institute has various committee activities for academic, administrative, co-curricular and extra-curricular activities. One can contribute in committee activities for enrichment, as per his/her interest/taste. For complete information about committee activities, refer Handbook of Committee Activities.

Library

Staff members can avail library facilities for borrowing books. Each staff member can borrow 5 books for limited period.

Staff members are required to contribute library activities by suggesting new books, etc. Staff members are highly encouraged to avail and propagate use of e-journals available at the library.

Salary

Staff members are paid salary as per the 6th Pay Commission recommendations adopted by the State Government.

Consolidated salary pay packages are given to ad-hoc appointments.

Income Tax deductions shall be done in accordance with as per IT considering investment plan declaration by the employee. Last date for investment plan declaration in the prescribed form would be 31st October and last date for submission of investment proofs to the Institute authorities would be 31st January.

Institute shall provide form 16 certificate as applicable to all concerned staff members by 15th June.

Profession Tax shall be deducted every month as per prevailing rules.

No loan facility shall be available. Facility for deduction of EMI from salary is not available.

Provident Fund

Staff members are covered as per Employees Provident Fund benefits.

Gratuity

Staff members completing continuous service of minimum 5 years in the Institute are eligible for Gratuity under the Gratuity Act, 1972 scheme.

Medical Insurance & Medical Assistance in Emergency

Staff members who have completed 2 years of service are covered with medical insurance. This facilitates reimbursement of charges of hospitalization and medicine expenses incurred during hospitalization up to Rs. 1,00,000/- in a year.

Institute is tied up with Topline Cardiac ambulance with para medic staff for on campus emergency medical assistance to staff & students of the Institute. Security officer shall make emergency arrangements as needed.

Leave Travel Concession

Staff members who have completed 2 years of service eligible for leave travel concession for visiting his/her native place once in two years. For details please refer to LTC policy of the Institute.

Book Allowance

Staff members who have completed 2 years of service eligible for book allowance Rs. 1000/- for purchase of books once in a year. For details please refer to book allowance policy of the Institute.

Leave Rules

Leave cannot be claimed as a matter of right and the leave sanctioning authority may refuse or revoke leave of any kind.

The employee shall have to apply for grant of leave in the prescribed e-form and shall proceed on leave only on due sanction. However, if the emergencies exists and employee is

required to proceed on leave for the reasons beyond his control, the leave sanctioning authority may, on satisfying itself sanction leave on application which is submitted later.

Leave may be granted in combination with or in continuation of any other kind of leave except Casual Leave.

If the employee overstays the sanctioned period of his leave, without prior permission or intimation, he shall not be entitled to any leave salary for such period and such absence may be treated as misconduct.

If any employee of the Institute resigns, he/she shall not be granted leave either prior or subsequent to his resignation, any leave due to his/her credit. Provided that the Principal may, in any case, grant leave to an employee prior to his/her resignation if, in the opinion of the Principal, the circumstances of the case justify such grant of leave.

The Principal reserves right to revoke or curtail any kind of leave as deemed necessary.

Absence after expiry of sanctioned leave shall be viewed very seriously.

Kinds of Leave

Casual Leave An employee shall be entitled to 8[#] days of casual leave in a calendar year.

Sanction for casual leave shall ordinarily be obtained using prescribed form. In exceptional circumstances, ex-post-facto sanction shall be obtained by the employee. If the leave sanctioning authority is not satisfied with reasoning for exceptional circumstances, sanction for leave shall be denied and absence shall be treated as leave without pay.

Casual leave in continuation for more than 3 days shall be treated as mass casual leave. Mass casual shall not be treated as casual leave and shall be treated as unauthorized absence and may be treated as mis-conduct.

Sundays, holidays (and Saturdays, as applicable) may be prefixed or suffixed with casual leave. However, casual leave cannot be combined with any other kind of leave.

Casual leave for ½ day can be granted to an employee. However, if it is half day working on Saturday, absence shall be treated as leave for a full day.

Unused casual leaves shall not be carried to the following calendar year.

Sick Leave

An employee shall be entitled for 10[#] days of leave for calendar year to cover absence due to medical reasons. Credit of 5 leaves shall be given on 1st Jan and 1st Jul of each year.

Staff member availing leave on medical ground may need to submit medical certificate issued by medical practitioner. The Institute reserves right to verify the same. If demanded, the employee may need to submit fitness certificate before joining the duties.

Unused sick leaves shall be carried to the following calendar year.

Earned Leave

An employee who is not entitled to vacation shall be entitled to earned leave at the rate of one eleventh of the period spent on duty, subject to maximum of 30 days in a calendar year and subject to the accumulation of maximum of 240 days of earned leave.

The employee may not be granted more than 120 days of earned leave at a time.

Earned leave shall be calculated, twice a year, for the period 6 months, Jan to Jun and Jul to Dec, and shall be credited to employee on 1st January and 1st July of each year. Employees who have completed 1 year of service on 1st Jan or on 1st July shall be considered for credit of earned leave on respective dates.

1 day leave shall be deducted for 10 without pay leaves.

An employee, who is eligible for vacation, is prevented from availing vacation in full or a part thereof, shall be granted earned leave, proportional to $\frac{1}{2}$ the number of vacation days not availed. In any case, maximum number of earned leaves earned in a year shall be 30.

The employee shall cease to earn such leave when earned leave accumulated exceeds 240.

Surrender of earned leave is not allowed.

The employee who retires on superannuation or who dies while in service shall be entitled to the benefit of cash equivalent of unutilized earned leave standing to his credit on the date of such retirement or death as the case may be. In such case, cash equivalent shall be based on salary and

dearness allowances admissible on such day.

Maternity Leave Female employee who has put in more than two years of service shall be eligible for maternity leave of 90 days.

Maternity leave can also be granted in case of miscarriage including abortion subject to maximum number of 45 days for a period of entire service.

In any case, application for maternity leave shall be supported by a certificate by a medical practitioner. The Institute reserves right to verify the same as deemed fit.

During maternity leave, leave salary equal to last pay drawn is admissible.

Study Leave A teacher can be granted study leave at the discretion of the governing body of the college subject to a maximum of 6 months. The teacher who is granted study leave shall enter into an agreement / bond with the institute for a period as deemed fit by the authorities.

Extra Ordinary Leave Extra ordinary leave (leave without pay and allowances) may be granted to an employee in special circumstances. Nature and period of leave may be decided by the Principal.

Compensatory Leave Employee asked to work on Saturdays / Sundays / Public Holidays by the competent authority in writing will be entitled to compensatory leave for the same. Only those employees whose gross salary is less than Rs. 20,000/- shall be eligible for compensatory leave. This leave shall not be carried to the next calendar year.

#Number indicates leaves for calendar year. The same shall be modified proportionately as per service period, i.e. if last date of service is 30th June, all leaves shall be reduced to half.

Leave without Pay (LWP or WP)

Leave without Pay shall be seriously viewed. Following, criteria shall be applicable with respect to LWP.

- There shall not be ½ day LWP. It will be treated as full day LWP.
- Holidays and weekly offs, suffixed and prefixed to LWP shall be treated as leave without pay.

- If number of leaves without pay in a month are more than 5, all holidays, weekly offs in that month shall be treated as LWP.

Vacation

Eligible staff members may be issued in summer and/or winter break strictly at the Institute's discretion. Maximum number of vacation is limited to 60 days per year. Employee should be physically present either before proceeding on vacation or the day preceding the last day of vacation.

However, the Institute highly discourages vacation and desires proactive working on maximum number of days.

Holidays & Weekly off

Principal shall declare list of holidays in year in the month of January.

Staff members shall avail 1 day, generally Sunday as weekly off.

Rewards

Teaching staff members shall be considered for reward points based on Performance Appraisal/KRA score. Nature of reward shall be decided time to time by the Principal in conjunction with Governing Body.

Dress Code

In an educational environment, the standard of dressing for men is neatly ironed, formal light coloured full sleeves shirt and dark trousers and for women a saree, shirt or blouse with skirt or a dress paired with appropriate accessories. For official functions, men shall wear suit and

women shall either wear suit or formal western dress or a very formal saree. Accessories for men are formal shoes, ties, belts and for women, scarves, belts and jewelry. Jewelry should be worn in good taste, with limited visible body piercing. Hats are not appropriate. Head Covers that are required for religious purposes or to honor cultural tradition are allowed.

A professional appearance is encouraged and excessive makeup is discouraged. Excessive use of perfume, may be disturbing to others, so use these substances with restraint.

If uniform is issued, use of uniform shall be mandatory. Cost of uniform shall be borne by the Institute. Not wearing uniform shall be strictly dealt with.

Identity Card

Staff members are issued with an identity card. Staff members are required to wear it while in the campus and present the same whenever demanded by the authorities or security staff.

Smoking & Consumption of Alcoholic Beverages, etc.

Smoking and Consumption of alcoholic beverages is not allowed in Institute campus. Chewing tobacco, pan, etc. is also not allowed in the Institute campus.

Vehicle Parking

Institute has limited parking spaces provided for its staff. Vehicles shall be parked at the owner's risk. The Institute shall take all precautions for safety & security of the vehicle, however, the Institute shall not be liable for any unforeseen incidence leading to damage, theft etc. due to natural or unnatural reasons.

Only those vehicles which are in good condition shall be allowed for parking.

Each vehicle owner needs to apply for his /her Parking Permit to the Security Office in the prescribed form. Overnight parking is not allowed unless prior permission is obtained from Security Officer.

Use of Cell phone

Staff members shall not use cell phone while in academic environment/delivery.. Use of cell phones for viewing videos / radio / music / Camera etc. is strictly prohibited. Use of ear phones / blue tooth devices in the campus is also strictly prohibited.

CCC Surveillance

Most of the class rooms/laboratories/offices/lifts are under CCC Surveillance.

Cafeteria & food outlets

The Institute has adequate food outlets on the campus. Food served is monitored for quality with the help of experts from Govt. Catering College.

Water

Institute uses Municipal water for general activities. Drinking water outlets/fountains are fitted with water purifiers.

Institute uses well water for flushing in toilets. Institute also has Sewerage Treatment Plant which provides water for gardening purpose.

Psychological Counselling

Institute is tied up with Avishkar Centre for Self Enrichment, Dadar for on campus psychological counselling to staff and students.

Safety & Security

The Institute has made adequate arrangements for safety & security of personal belongings of staff. However, the Institute shall not be liable for any unforeseen incidence leading to damage, theft etc. hence all staff members are requested to take care of their belongings at the Institute.

Note : Institute reserves rights to add, delete or modify content of this handbook as deemed necessary.

Vidyalankar Institute of Technology

Subject Cluster List – 2021-22

List of VIT Subject Clusters, Subject Cluster Mentors, Cluster Members,
External Industrial Cluster Mentors, External Academic Cluster Mentors
Contact Details, Designation, Company Address of External Cluster Mentors,
Semester-wise Subject Load Distribution for all Subject Clusters

Prepared by – Dr. Saurabh Mehta, CAO/ VIT

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
1	Signal Processing and Digital Signal Processing	IL	Dr. Sheetal Mapare Professor, Electronics & Telecommunication Engineering Dept. Ph-9820399826	Dr. Kushal Tuckley Chairman AGV systems Ph- 9869069155	Dr. Rajbabu Velmurugan Professor, Department of Electrical Engineering, IIT Bombay, Powai Ph- +91-22-2576-7444

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	VII	ETRX	Digital Signal Processing	Sheetal Patil Pravin Annadate Neha Kudu	ETRX INFT	1	IV	EXTC	Signals and System	Dr. Arpit Rawankar Dattatray Bade Amit Maurya	EXTC
2	V	BIOM	Biomedical Digital Signal Processing (BDSP)	Ashish Shekhar Priyanka Shrivastava	EXTC BIOM	2	VIII	EXTC	Advanced Digital Signal Processing	Ashish Shekhar Dr.Sheetal Mapare	EXTC
3	VII	CMPN	Digital Signal and Image Processing (DSIP)	Dr. Vipul Dalal Abhishek Pandey Rasika Ransing	CMPN	3	VI	ETRX	Signals and Systems	Sheetal Patil Pravin Annadate	ETRX
4	V	EXTC	Discrete Time Signal Processing (DTSP)	Ashish Shekhar Dr. Sheetal Mapare	EXTC	4	IV	BIOM	Signals & Control Systems (SCS)	Hemant Jadhav Pravin Annadate	EXTC ETRX
Total Load Odd				Total 10 members		Total Load Even				Total 8 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
2	Image Processing	IL	Prof. Vibha Wali EXTC Mob – 9324265453	Mr. Aanad Khandekar	Dr. Sanjay Shitole Professor , SNDT

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	INFT	Image Processing (DLO)	Ajay Dhruv	INFT	1	VI	BIOM	Digital Image Processing	Priyanka Shrivastava	BIOM
2	VII	BIOM	Advance Image Processing (AIP)	Priyanka Srivastava	BIOM	2	VI	EXTC	Image Processing and Machine Vision	Vibha Wali Prathmesh Mestry Snehal Ashtekar Amit Mourya Sauali Todkari	EXTC EXTC ETRX
						3	VIII	ETRX	Digital Image Processing (DIP)	Sheetal Patil	ETRX
						4	VI	EXTC	Audio Processing	Vibha Wali Prathmesh Mestry Ashish Shekhar	EXTC EXTC EXTC
Total Load Odd				Total 2 members		Total Load Even				Total 8 member	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
3	Microprocessor and Microcontroller	Institute Cluster (IL)	Dr. Arun Chavan Dept – Computer Engg. Contact - 9820149100		Dr. Faruk Kazi VJTI, Mumbai. Contact – 9820223893

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	EXTC	Microcontrollers & Peripherals Interfacing	Atul Oak Vijay Purohit Mohit Gujar	EXTC	1	IV	ETRX	Microprocessors & Applications (MPA)	Manoj Suryavanshi Savio Moraes	ETRX
2	V	ETRX	Microcontrollers & Applications (MCA)	Manoj Suryavanshi Savio Moraes	ETRX	2	VI	BIOM	Microprocessors & Microcontrollers (MPMC)	Dr. Arun Chavan Komal Lawand	CMPN BIOM
3	V	CMPN	Microprocessors (MP)	Mandar Sohani Mohini Kamat	CMPN	3	VI	EXTC	Microcontrollers & Applications	Atul Oak Vijay Purohit Mohit Gujar	EXTC
4	V	INFT	Microcontrollers & Embedded Systems (MEP)	Ajitkumar Khachane Kanchan Dhuri	INFT						
Total Load Odd				Total 9 members		Total Load Even				Total 7 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
4	Embedded Systems & IOT, Computer Organization	Institute Cluster (IL)	Prof. Atul Oak Assistant Professor, Extc 9820784299	Mr. Abhay Phansekar Consultant	Dr. R. D Daruwala Professor, VJTI

Odd Semester Subject Details					Even Semester Subject Details						
Sr. No.	Sem.	Dept.	Subject / Total Load	Members	Dept.	Sr. No.	Sem.	Dept.	Subject / Total Load	Members	Dept
1	VII	EXTC	Embedded Systems (Elective)	Vijay Purohit Mohit Gujar	EXTC EXTC	1	VI	ETRX	Embedded System Design and RTOS (ESD)	Shrikant Velankar Akshatha Bhat Savio Moraes	ETRX
2	VII	BIOM	Embedded System	Vijay Purohit	EXTC	2	VIII	CMPN	Embedded Systems *(Elective)	Mandar Sohani Dr. Arun Chavan	CMPN
3	ME-I	INFT	Internet of Things	Ajitkumar Khachane Dr. Swati Sinha Dr.Sachin Bojewar Kanchan Dhuri	INFT	3	VIII	ETRX	Internet of Things	Ulka Padwalkar Akshatha Bhat Rakshak Sood	ETRX
4	V	INFT	Internet of Things LAB	Ajitkumar Khachane Kanchan Dhuri, Anuja Gote	IN FT	4	VIII	INFT	Internet of Everything	Kanchan Dhuri, Anuja Gote, Neha Kudu	INFT
						5	IV	INFT	Computer Organization and Architecture (COA)	Ajitkumar Khachane	INFT

						6	VI	ETRX	Computer Organization (CO)	Vivek Patkar	ETRX
						7	IV	CMPN	Computer Organization and Architecture (COA)	Suvarna Bhat, Rasika Ransing	CMPN
Total Load Odd				Total 9 members		Total Load Even				Total 14 members	

* This elective has never been taken by Students at our institute, since it's inception in the R-2012 Syllabus.

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
5	Control Systems	IL	Dr. Arpit Rawankar Professor, Electronics And Telecommunication Engineering Department VIT, Wadala	Neil Savant, Managing Director NUOS (formerly IntuitThings) - brand by Falcon Control Systems & Automation Pvt. Ltd. +91-8369429015, 9619260401	Mr. Aseem Borkar, Doctoral research associate University of Illinois at Urbana- Champaign, USA 9820606766

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	III	EXTC	ECC305 Electronic Instrumentation & Control- Lecture Lab	Hemant Jadhav Mayurkumar N. Dr. Arpit Rawankar Amey Revankar	EXTC	1	IV	ETRX	Linear Control Systems Lecture	Geetha Narayanan Javed Patel Uma Jaishankar	ETRX
2	V	ETRX	Digital Control System	Dr. Nayana Mahajan	ETRX						
Total Load Odd			30 hours	Total 6 members		Total Load Even			24	Total 3 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
6	Micro Electro Mechanical System	IL	Dr. Gajanan D. Nagare Professor, Biomedical Engineering Dept. Ph-9869913386	Mr Vikas Gujar, Applied Materials, IIT Bombay Campus, Mumbai Ph- 7738096824	Dr Nageshwari, CEN, IIT Bombay, Powai Ph- (+91)- 9969987462

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1								Biomedical Microsystems (BMS)	Gajanan Nagare Suvarna Udgire	BIOM	
2								MEMS Technology (MEMS)	Rajashree Soman Akshatha Bhat Amaya Pethe	ETRX	
NIL				NIL	NIL	Total Load Even			Total 5 members		

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
7	CMOS VLSI Design	IL	Akhil Masurkar Assistant Professor Department of Electronics Engineering Mob – 9819063308	Pradnesh Mohare CEO and Founder – Navtarang (USA) Mob: +14083294666	Dr. Deepak Bhoir Head of Department FRCRCE and Member – BOS Electronics Mob - 9869433765

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	7	EXTC	CMOS Mixed Signal VLSI * (Elective)	Satendra Mane	EXTC	2	8	ETRX	Analog and Mixed VLSI	Akhil Masurkar Sunil Kavatkar	ETRX
Total Load Odd				Total 1 members		Total Load Even				Total 2 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
8	VLSI and IC Technology	IL	Dr. Sangeeta Joshi Professor and Technical Advisor (ETRX) Mob: 9869039269		Prof. Gopal TIFR Mob:

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept	
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load			
1	5	ETRX	ASIC Verification	Akshatha Bhat	ETRX	3	6	ETRX	Basics of VLSI Design	Dr. Sangeeta Joshi Girish Gidaye Anuradha Joshi	ETRX ETRX ETRX	
2	7	BIOM	Basic of VLSI	Geetha Narayanan Priyanka S	BIOM	4	6	EXTC	Digital VLSI Design * (Elective)	Satendra Mane	EXTC	
3						5	8	ETRX	IC Technology	Dr. Sangeeta Joshi Girish Gidaye Amaya Pethe	ETRX	
Total Load Odd				Total 3 members		Total Load Even				72	Total 5 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
9	Electronics Devices and Linear Integrated Circuits	IL	Prof. Satendra. H. Mane Assistant-Professor EXTC Dept-9867412981	Mr. Neel Sawant	Dr. Uday Pandit BOS, Mumbai University Mobile No:- 9819190662

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	III	ETRX	Electronics Devices and Circuits (32)	Nisy Mathew Girish Gidaye Prachi Mujawar	ETRX	1	IV	ETRX	Electronics Devices and Circuits 2/	Harish Ojha Hemant Jadhav Nisy Mathew Girish Gidaye	BIOM EXTC ETRX
2	III	EXTC	Electronic Devices and Circuits 30	Satendra Mane Prathamesh Indulkar Dr. Anand Tripathi	EXTC	2	IV	EXTC	Electronics Devices And Circuits 2/	Satendra Mane Prathamesh Indulkar Dr. Anand Tripathi	EXTC
3	III	CMPN	Electronics Circuits and Communication Fundamentals	Dr. Anand Tripathi Harish Ojha Suvarna Bhat	EXTC BIOM CMPN	3	IV	EXTC	Linear Integrated Circuits	Vijay Purohit Mayurkumar Nanda Mohit Gujar Neelam Punjabi Dr. Anand Tripathi	EXTC EXTC EXTC BIOM EXTC
4	III	BIOM	Electronic Circuit Analysis and Designing	Harish Ojha	BIOM	4	IV	BIOM	Linear Integrated Circuits (LIC)	Harish Ojha	BIOM
5	V	EXTC	Microelectronics * (Elective)	Satendra Mane Swapnil Ashtekar	EXTC EXTC						
6	V	ETRX	Design with Linear Integrated Circuits (DLIC)	Prachi Mujawar Vivek Patkar Rajeshree Soman Sunil Kavatkar	ETRX						

7	V	BIOM	Analog and Digital Circuit Design (4+0=4) Integrated & Communication design (LAB)	Neelam Punjabi	BIOM	2					
Total Load Odd				Total 14 members		Total Load Even				Total 8 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
10	Digital Electronics and Logic Design	IL	Geetha Narayanan Biomedical Engineering Dept. Associate Professor Ph.. No 9821854617	Mr. Alhad Kulkarni Sr. Manager, Strategic Electronics Div. L&T HED Powai Mumbai Ph. No -9821855907	Dr. Y S Rao Professor, SPIT Ph. No

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	III	CMPN	Digital Logic Design and Analysis / (12+9*2)=30	Ravindra Sangle Rajashree Soman Rasika Ransingh Suvarna Bhat	CMPN ETRX CMPN CMPN	1	IV	BIOM	Digital Electronics(4+2*3) = 10	Komal Lawand	BIOM
2	III	ETRX	Digital Circuit Design/(12+6*2+4*2)=32	Geetha Narayanan Amaya Pethe Anuradha Joshi	BIOM ETRX ETRX	2	IV	ETRX	Digital System Design(12+11*2) =34	Geetha Narayanan Amaya Pethe	BIOM ETRX ETRX
3	III	EXTC	Digital System Design/(12+9*2)=30	Beena Ballal Sayli.S.Todkari	EXTC						
4	III	INFT	Logic Design/(12+9*2)=30	Kanchan Dhuri Neha Kudu	INFT						
Total Load Odd			122	Total 12 members		Total Load Even				Total 4 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
11	Communication Engineering	IL	Pranita Padhye Electronics Engg. Department , Assistant Professor -9970165821	Mr. Abhijit Dharmadhikari Assistant General Manager – Charging Systems Vodafone India Ltd- 9819364424	Dr. Deepak Karia Professor, Electronics Dept.- SPIT 9820436099

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	ETRX	Digital Communication (DC) /36	Akhil Masurkar Ulka Padwalkar	ETRX	1	VI	ETRX	Fundamentals of Communication Engineering (FCE)/36	Prachi Mujawar Javed Patel Anuradha Joshi	ETRX ETRX ETRX
2	III	INFT	Principles of Communication (PADC)/ 12	Vinita Bhandiwad Neha Kudu	INFT INFT	2	IV	EXTC	Principal of communication Engineering	Beena Ballal Harshada Rajale Amey Revandkar Mayurkumar Nanda Dr. S S Thakur	EXTC
3	V	BIOM	Principles of Communication Engineering (PCE)/12	Nisy Mathew	ETRX						
4	M.E. I	EXTC	Statistical Signal Processing/4	Dattatray S. Bade Santosh Jagtap	EXTC						
5	V	ExTC	Digital Communication (DC)/36	Santosh Jagtap Dr. Sanjay Thakur	EXTC						
Total Load Odd				Total 9 members		Total Load Even				Total 8 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
12	Circuit Theory	IL	Pravin Annadate Electronics Engineering Dept. Associate Professor-9820046653	Dr. Pradip V. Chawande Research Engineer , Reliance Industry Ph-9323551666	Prof. R. G. Karandikar Professor in Electronics and Telecommunication Engineering and Dean (Academic Program) Ph- 9869218446

Odd Semester Subject Details					Even Semester Subject Details						
Sr. No.	Sem.	Dept.	Subject / Total Load	Members	Dept.	Sr. No.	Sem.	Dept.	Subject / Total Load	Members	Dept.
1	3	ETRX	Electrical Network Analysis and Synthesis (ENAS)/ (18+9*2)=36	Pravin Annadate Neha Kudu	ETRX INFT	1	NIL	NIL	NIL	NIL	NIL
2	3	EXTC	Circuits & Transmission Line (CTL)/ (18+9*2)=36=32	Dattatray Bade Mohit Gujar Prathmesh Indulkar	EXTC	2	NIL	NIL	NIL	NIL	NIL
3	3	BIOM	Electrical Network Analysis and Synthesis (ENAS)Design/(4+6)=12	Prathamesh Indulkar Komal Lawand	BIOM						
Total Load Odd				Total 6 members		Total Load Even			NIL	NIL	NIL

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
13	Basic Electrical Engineering (Electrical Cluster)	Institute Cluster	Javed Patel Electronics Engineering Dept. Assistant Professor 9820541761	Dr. Pradip V. Chawande Research Enginee, Reliance Industry Mob - 9323551666	Prof. R. G. Karandikar Professor ETRX KJSCET BOS ETRX MU Mob - 9869218446

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1.	I	FE (all)	Basic Electrical Engineering (36+26*2)=88	Hemant Jadhav Amit Maurya Mayurkumar Nanda	EXTC	Total Load in Even Semester = NIL					
				Javed Patel AKHIL MASURKAR	ETRX						
Total Load Odd			90	Total 5 members							

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
14	Computer Programming	IL	Mandar Sohani Computer Engineering Dept. Associate Professor-9819283485	Mr. Ravikant Vemparala Google, USA 9920722853	Mr. Mahesh Bhave Professor, Computer Engg. Dept. VJTI Mumbai 9821403726

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	III	CMPN	Object Oriented Programming Methodology Laboratory [4* {2 * 2 + 2 * 3 * 2}] =64	Swapnil Sonawane Devendra Pandit Sanjeev Dwivedi	CMPN	1	II	FE	C Programming [2*9 + 2*3*9] = 72 (- 8 Hrs)	Sachin Deshpande Mandar Sohani Sanjeev Dwivedi Bhanu Tekwani Swapnil Sonawane	CMPN EXTC CMPN INFT EXTC CMPN
2	III	INFT		Bhanu Takwani Shruti Agarwal Dr. Sachin Bojewar	INFT				[Additional load of TA = 2*3*8 = 48]		
3	III	EXTC		Vibha Wali Vaibhav Kshirsagar Harshada Rajale	EXTC	2	IV	INFT	Python (6 Th + 18 Lab)=24		
4	III	ETRX		Vivek Patkar	ETRX						
5	III	BIOM	Object Oriented Programming Methodology Laboratory [2 * 1 + 2 * 3] = 08	Snehal A Shruti Agarwal	CMPN INFT						
6	VII	INFT	Android App Development Lab/24	Debarati Ghoshal Indu Anoop	INFT	3	VIII	INFT	R Programming Lab/24	Varsha Bhosale, Harshali Rambade, Swati Sharma	INFT
7	VII	INFT	Mobile Application Development	Indu Anoop	INFT	4	VI	BIOM	Healthcare Software (4 Th +2 Lab=6Hrs)	Rohit Barve +- +++++	+

Total Load Odd		104			+			+	112	Total 12 members	
Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number		External Industry Cluster Mentor Details / Company – Designation – Contact Number			External Academic Cluster Mentor Details / Institute – Designation – Contact Number			
15	Algorithm Analysis and Design	IL	Prof. Rugved Deolekar Computer Engg. Department , Assistant Professor - 9833116223		Mr. Vishal Verlekar TCS , Delivery Manager - 9821761053			Dr. Sanjay Pawar Principal, UMIT, SNTD University 9819090993			

Odd Semester Subject Details					Even Semester Subject Details						
Sr. No.	Sem.	Dept.	Subject / Total Load	Members	Dept.	Sr. No.	Sem.	Dept.	Subject / Total Load	Members	Dept.
1	III	CMPN	Data Structures / 30	Sanjeev Dwivedi, Amit Nerurkar, Swapnil Sonawane, Devendra Pandit Rugved Deolekar	CMPN	1	IV	CMPN	Analysis of Algorithm / 30	Sanjeev Dwivedi, Devendra Pandit Rugved Deolekar	CMPN
2	III	INFT	Data Structure and Analysis	Akshay Loke Rohit Barve Santosh Tamboli							
3	V	CMPN	Advanced Algorithms (DLE)	Rugved Deolekar Sanjeev Diwedi	CMPN						
5	ME- I	CMPN	Advanced Algorithm and Complexity / 4	Dr. Dilip Motwani	CMPN						
6	V	INFT	Advanced Data Structures and Analysis of Algorithms (DLO)	Akshay Loke	INFT						
Total Load Odd			88	Total 11 members		Total Load Even				Total 3 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
16	Computer Networks	IL	Sachin Deshpande Computer Engg. Department , Associate Professor -9820960295	Mr. Tanmay Mujumdar CapGemini , Network Security Manager -9819055012	Dr. G.P. Bhole VJTI , Professor in Computer Dept. 9819674305

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem .	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	CMPN	Computer Networks	Amit Nerurkar , Swapnil Sonawne Amit Alyani	CMPN	1	IV	INFT	Computer Networks/36	Vineeta Bhandiwad Akshay Loke Yash Shah	INFT
2	ME-I	CMPN	Advanced Computer Networks and Design	Sachin Deshpande Dr. Dilip Motwani	CMPN	2	VI	CMPN	Advanced Computer Network (DLE)	Sachin Deshpande Amit Nerurkar Snehal Andhare	CMPN
3	VII	BIOM	Networking and Information System in Medicines	Suvarna Udgire	BIOM	3	VI	ETRX	Computer Communication Networks	Pranita Padhye ,Rakshak Sood Poonam Shah	ETRX
4	VII	INFT	Enterprise Network Design	Dr. Swati Sinha Ajay Dhruv	INFT	4	VI	EXTC	Computer Communication Networks	Beena Ballal Sayli Todkari	EXTC
5	VII	INFT	Enterprise Network Design Lab	Dr.Swati Sinha Ajay Dhruv	INFT	5	VIII	BIOM	Healthcare Informatics	Suvarna Udigire Priyanka Srivastva	BIOM
Total Load Odd			88	Total 8 members		Total Load Even			84	Total 13 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
17	IT Infrastructure	IL	Ajay Dhruv Department of Information Technology, Assistant Professor 9821950328	Mr. Tushar Topale Managing Partner, Cloud Counselage Pvt. Ltd 9833871556	Mr. M. M Chadane Professor , VJTI Contact No

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	INFT	IT Enabled Services	Dr. Sachin Bojewar	INFT	1	VI	INFT	Cloud Computing Services	Indu Anoop , Debarti Ghosal	INFT
2	VII	INFT	Storage Area Network(DLO)	Debarti Ghoshal Swati sharma	INFT	2	VI	INFT	Cloud Services Design Lab	Indu Anoop , Debarti Ghosal	INFT
3	M.E- I	IT	IT Strategy	Ajay Dhruv	INFT	3	VI	INFT	Green IT (DLO)	Neha Kudu	INFT
4	M.E- I	IT	IT Infrastructure and Design	Ajay Dhruv	INFT	4	VIII	CMPN	Cloud Computing Lab	Dr. Umesh Kulkarni	CMPN
5	ME	INFT	Cloud Computing	Ajay Dhruv		5	VIII	INFT	Information Retrieval System	Deepali Shrikhande Swati Shrama	INFT
Total Load Odd				Total 4 members		Total Load Even				Total 6 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
18	Instruments and Measurement	IL	Uma Jaishankar Electronics Engg. Department , Assistant Professor 9821690499	Mr. Pritam Joshi Project Head L &T	Prof. Dr. Ramesh. Karandikar Board of Studies member EXTC KJ Somaiya college of Engg 9869218446

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	III	ETRX	Electronic Instruments and measurements (12+9)	Uma Jaishankar Poonam Shah Dr. Nayana Mahajan	ETRX	1	VI	ETRX	Advanced Instrumentation systems (12+12)	Poonam Shah Nisy Mathew	ETRX
2	VII	ETRX	Instrumentation System Design (36)	Sunil Kavatkar Viek Patkar	ETRX	2	IV	ETRX	Electrical Machines (9+9)	Pravin Annadate Javed Patel	ETRX
						3	VIII	ETRX	Virtual Instrumentation (36)	Poonam Shah	ETRX
Total Load Odd				Total 5 members		Total Load Even				Total 4 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
19	Optical Communication and Network	IL	Santosh J Jagtap EXTC Dept. Assistant Professor 9020809011	Mr. Pradip Punwatkar Assistant Vice President Reliance Industries Ltd, Mumbai 9324289490	Dr. Dileep kumar Mishra National Postdoctoral Fellow Department of Material Science Programme, Indian Institute of Technology, Kanpur (India) Ph. No -7715877598

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	VII	EXTC	Optical Communication and Network	Santosh Jagtap	EXTC	1	VIII	BIOM	LASER and Fiber Optics	Dr. Arpit Rawankar	BIOM
2	ME-I	EXTC	Optical Communication Network	Santosh Jagtap	EXTC	2	VIII	EXTC	Optical Network	Santosh Jagtap Dr. Arpit Rawankar Dr. Dhananjay Patel	EXTC
Total Load Odd			32	Total 1 members		Total Load Even			12	Total 3 member	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
20	Wireless and Mobile Communication	IL	Ranjana Gite Assistant Professor EXTC Dept 9820803980	Mr. Nagnath Kulkarni Senior Manager (IT) MTNL, Powai, Mumbai 9869055699 nakulkarni@gmail.com	Dr. Deepak Karia Professor. Electronics Department SPIT , Mob No:- 9820436099

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept	
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load			
1.	VII	EXTC	Mobile communication System	Dr. Saurabh Mehta Ranjana Gite Harshada Rajale Snehal Ashtekar Beena Ballal Dattatray Bade	EXTC	1.	VIII	EXTC	Wireless Networks/36	Dr. Saurabh Mehta Ranjana Gite Harshada Rajale Snehal Ashtekar	EXTC	
2.	VII	ETRX	Advanced Networking Technology (Elective)	Pranita Padhye	ETRX	2.	VIII	ETRX <i>*(ELECTIVE)</i>	Wireless communication	Ulka Padwalkar Sheetal Patil Savio Moraes	ETRX	
3	VII	CMPN	Mobile Communication and Computing	Dr. Dilip Motwani Sneha A Abhishek Pandey Vinita B	CMPN CMPN INFT INFT	3.	VI	INFT	Wireless S/N	Dr.Swati Sinha Neha Kudu, Vinita Bhandiwad	INFT	
Total Load Odd				Total 11 members		Total Load Even				92	Total 10 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
21	Mathematics and Statistics	IL	Nasir Ansari 9920118804		Prof. Tathagat Sengupta Reader, BARC Ph. No :-7900056275

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Se m.	Dept.	Subject / Total Load		
1	I	All	Applied Mathematics - I	Ambadas Deshmukh, Nasir Ansari	FE	1	II	All	Engineering Mathematics - II	Ambadas Deshmukh, Nasir Ansari	FE
2	III	INFT	Applied Mathematics –III	Sampat Mali	FE	2	IV	INFT	Applied Mathematics –IV	Dr. Uday Kashid	FE
3	III	CMPN	Applied Mathematics –III	Vishwas Patil Prakash Parmar	FE	3	IV	CMPN	Applied Mathematics –IV	Vishwas Patil Sampat Mali	FE
4	III	ETRX	Applied Mathematics –III	Vishwas Patil	FE	4	IV	ETRX	Applied Mathematics –IV	Vishwas Patil	FE
5	III	EXTC	Applied Mathematics –III	Dr Uday Kashid,	FE	5	IV	EXTC	Applied Mathematics –IV	Dr. Uday Kashid Sampat Mali	FE
6	III	BIOM	Applied Mathematics –III	Dr. Uday Kashid	FE	6	IV	BIOM	Applied Mathematics –IV	Dr. Uday Kashid	FE
Total Load Odd				Total 7 members		Total Load Even				Total 6 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
22	Communication Skills and Humanities	IL	Meenakshi Nandula Humanities Department, First Year Engineering Assistant Professor 9819469087		Dr. Shyamlee Solanki Associate Professor Sardar Patel College of Engineering

Odd Semester Subject Details				Members	Dept .	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	INFT	Business Communication and Ethics/30	Mitalee Gangal BM7-Dhanashree Kamble	FE	1	II	FE INFT	Professional Communication & Ethics/16	Mitalee Gangal	FE
2	V	CMPN	Business Communication and Ethics/30	Meenakshi Nandula BM5-Pooja Molankar BM6-Darpana Manjarekar	FE	2	II	FE CMPN	Professional Communication & Ethics/16	Micky Barua	FE
3	V	ETRX	Business Communication and Ethics/30	Srividya Bathula BM6-Darpana Manjarekar	FE	3	II	FE ETRX	Professional Communication & Ethics/12	Meenakshi Nanadula	FE
4	V	EXTC	Business Communication and Ethics/30	Micky Barua BM7-Dhanashree Kamble	FE	4	II	FE EXTC	Professional Communication & Ethics /14	FE3-Ashima Syal	FE
5	V	BIOM	Business Communication and Ethics/10	Visting 3 BM5-Pooja Molankar BM7-Dhanashree Kamble	FE	5	II	FE BIOM	Professional Communication & Ethics /4	Meenakshi Nandula	FE
Total Load Odd			130 hrs	Total 7 members		Total Load Even			62 hrs	Total 4 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
23	Applied Physics	IL	Renu Mann FE. Department , Assistant Professor -9920309319	Dr. Chandrashekhar K. BARC 9930158958	

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	I	FE	Engineering Physics-I Th 2*9=18 Prac 3*9=27	Renu Mann Pravin Gharge	FE	1	II	FE	Engineering Physics-II Th 2*9=18 Prac 3*9=27	Renu Mann Pravin Gharge Darshana Kelkar(Visitng)	FE
Total Load Odd			45	Total 2 members		Total Load Even			45	Total 3 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
24	General Engineering	IL	Prof. Govind Mali FfE, General Engg. Dept Asst Professor, 9820275288	Mr. Satish Kotgire Siemens, India General Manager (IT) Mob - 9819871723	Dr. Vikas M. Phalle VJTI, Mumbai. TPO, PhD admission In-Charge, Contact No.: 9819818084

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	I	FE-Gen Engg	Engg. Mechanics Theory 9*3=27 + Lab (9*3*2)=54	Govind Mali Ishan Upadhyay Manish Mishra Rupesh Parthe	General Engg. (FE)	2	II	FE	Engineering Graphics Theory 9*2=18 + Lab 9*3*4=108	Govind Mali D.N.Krishna Ishan Upadhyay Manish Mishra Rupesh Parthe	General Engg. (FE)
Total Load Odd			81	Total 4 members		Total Load Even			126	Total 5 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
25	Applied Chemistry and Environmental Science	IL	Prof. Sonaali Borkar FE, Applied Science Assistant Professor Contact : 9819322711		Dr. Bhalchandra Bhanage Dean (Infrastructure & Campus Development) ICT 9323994018

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	I	FE	Engineering Chemistry I Th 2*9=18 Prac 3*9=27	Sonaali Borkar Nilima Main Dr. Poonam Bathla	FE	1.	II	FE	Engineering Chemistry II Th 2*9=18 Prac 3*9=27	Sonaali Borkar Nilima Main Dr. Poonam Bathla Dr. Snehal More(FE
						2.	II	BE(All)	Environmental Management (Th 02)	Dr. Poonam Bathla	Applied Science- FE
Total Load Odd			45	Total 3 members		Total Load Even			47	Total 5 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
26	Biomedical Instrumentation	DL	Dr. Jitendra Toravi	Dr. Surendra Sanghvi Ex. Scientific Officer BARC , Ex. Prof. MGM CET. (M)- 9820543850	Mr. Nagesh Utekar Director M/s Rescare Medisystems (I) Pvt. Ltd. (M)- 9820129121

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	BIOM	Diagnostic & Therapeutic Instruments	Dr. J. R. Toravi	BIOM	1	VIII	BIOM	Hospital Management	Dr. J. R. Toravi Neelam Punjabi	BIOM
2	VII	BIOM	Life Saving & Surgical Equipment	Dr. Gajanan Nagare	BIOM	2	VI	BIOM	Biomedical Monitoring Equipment	Arunkumar Ram	BIOM
3	V	ETRX	Biomedical Instrumentation (Elective)	Prachi Mujawar	ETRX	3	IV	BIOM	Biomedical Transducers and Measuring Instruments	Dr. Gajanan Nagare	BIOM
Total Load Odd				Total 3 members		Total Load Even				Total 4 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
27	Medical Imaging and Rehabilitation	DL	Suvarna Udgire , Biomedical Engg. Dept, Assistant Professor 9702960409	Mangesh Mhatre, Head BIOM Engg. Dept, All India Institute of Physical Medicine and Rehabilitation, 9820718569	Dr Alice Cheeran, VJTI , Associate Professor, 9819048713

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	III	BIOM	Basics of Human	Komal Lawand	BIOM	1	VI	BIOM	Biological Modelling & Stimulation	Suvarna Udgire	BIOM
2	VII	BIOM	Biomechanics, Prosthesis and Orthosis (4+8 =12)	Arunkumar Ram	BIOM	2	VI	BIOM	Medical Imaging I	Neelam Punjabi	BIOM
3	V	BIOM	Rehabilitation Engineering	Priyanka S Arunkumar Ram	BIOM	3	VIII	BIOM	Nuclear Medicine	Arunkumar Ram Priyanka S	BIOM
4	VII	BIOM	Medical Imaging II	Arunkumar Ram	BIOM						
Total Load Odd				Total 3 members		Total Load Even				Total 4 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
28	RF and Microwave Engineering	DL	Pravin Patil Department of Electronics and Tele-communication Assistant Professor (Mobile:+91 9769883288)	Dr. Shankar Nawale Sihagad Institute of Technology, Solapur, Principal (Mobile : +91 9224350121)	Dr. Munir Sayyad Reliance (JIO) Industries Ltd. VP (Mobile:+91 7738189979)

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	EXTC	*Electromagnetic Engineering/15	Dr Sanjay Thakur Pravin Patil Prathmesh Mestry Vibha Wali Dr. Sheetal Mapare Ashish Shekar Dattatrey Bade	EXTC	1	II ME EXTC	EXTC	RF and Microwave Engineering/06	Pravin Patil Vaibhav K. Dr Sanjay Thakur	EXTC
2	VII	EXTC	Microwave Engineering/12	Pravin Patil Dr Sanjay Thakur Vaibhav Khirsagar Dr. Sheetal Mapare Ashish Shekar	EXTC	2	VI	EXTC	*Antenna and Radio wave propagation/12	Pravin Patil Dr. Sheetal Mapare Dr Sanjay Thakur Amit Maurya Ashish Shekar Amey Revankar Santosh Jagtap	EXTC
4	V	ETRX	*Electromagnetic Engineering/15	Anuradha joshi Neha Kudu	EXTC INFT	3	VIII	EXTC	**RF Design/36 (including lab)	Pravin Patil Sheetal Mapare Dr Sanjay Thakur	EXTC

										Ashish Shekar Prathemash Mestry Santosh Jagtap Vibha Wali Vaibhav Kshirsagar	
					4	VI	ETRX	Microwave Engineering (12)	Pranita Padhye	ETRX	
					5	VI	EXTC	RADAR Engineering	Pravin Patil Dr Sanjay Thakur Ashish Shekhar Vaibhav Kshirsagar	EXTC	
Total Load Odd				Total 11 members		Total Load Even			Total 15members		

*revised syllabus effective from AY 2018-19, ** revised syllabus effective from AY 2019-20

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
29	Satellite Communication (EXTC)	DL	Vaibhav Kshirsagar Assistant Professor Contact: - +91-9930521128	Mr. Prashant Butani Senior technical and sales director, South Asia MEASAT – Malaysia Contact: - +91-9930444550 +60-(3)-8213-2188 (Malaysia)	Dr. R. K. Gupta Professor TPCT's Terna Engineering College, Member of BOS, UoM Contact: - +91-9819436821

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	EXTC	TV & VIDEO Engg.	Vaibhav Kshirsagar Vijay Purohit Ameya Revandkar	EXTC	1	VIII	EXTC	Satellite Communication & Networking	Vaibhav Kshirsagar Vijay Purohit Amit Maurya	EXTC
						2	ME-II	EXTC	Satellite Network		
Total Load Odd				Total 3 members		Total Load Even				Total 3 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
30	Telecommunication Network Management	DL	Dr. Sheetal Mapare Electronics and Telecommunication Engg. Department , Assistant Professor -9545452796	Mr.Irfan Khan Netmagic Solutions, Senior Network Engineer - 8898029212	Mr.Rahul Chavan SPCOE , Assistant Professor - 9370369382

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	-	-	-	-		1	VIII	EXTC	Network Management in Telecommunication (Elective)	Sheetal Mapare Satendra Mane Vibha Wali Mayurkumar Nanda Swapnil Ashtekar	EXTC
Total Load Odd				Total members		Total Load Even				Total 5 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
31	Data Compression and Encryption	DL	Sayli Todkari EXTC Department Assistant Professor 9819681688	Mr. Srinivas Singh Network Administrator, AXIS Bank	Dr. Deven Shah Thakur College of Engineering sir.deven@gmail.com

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	EXTC	Data Compression and Encryption / 24	Snehal Ashtekar Swapnil Ashtekar Sayli Todkari	EXTC						
Total Load Odd				Total 3 members		Total Load Even 00				Total 0 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
32	Power Electronics	Departmental Cluster (DL)	Dr. Nayana Mahajan (ETRX) Assistant Professor ETRX Department Ph. No. 9967535070	Mr. Shishir Gupta General Manager & Head- Power Electronics & Automation Technology Centre, L&T-EAIC Ph.no. 9699788320	Dr. Vishwesh Vyawahare Professor Department of Electronics Engineering, Ramrao Adik college of Engineering, Navi Mumbai, Ph.no. 9819858418

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	VII	ETRX	Power Electronics / (12Th +24 Lab) = 36	Javed Patel Savio Moraes Nisy Mathew Dr. Nayana Mahajan	ETRX	1	VIII	ETRX	Advanced Power Electronics (Elective)/ (12)	Javed Patel Hemant Jadhav Savio Moreas Dr. Nayana Mahajan	ETRX
				Hemant Jadhav						EXTC	
2	VII	INST	Product Life Cycle Management	Shrikant Velankar	ETRX	2	VI	ETRX	Electronics Product Design (12)	Dr. Nayana Mahajan	ETRX
Total Load Odd				Total 7 members		Total Load Even				Total 5 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
33	Robotics (Electronics)	IL	Geetha Narayanan Biomedical Engineering Dept. Associate Professor-9821854617	Mr. Neil Sawant CEO & Founder - NUOS Home Automation (formerly IntuitThings) 9619260401	

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	VII	ETRX	Robotics (elective)	Geetha Narayanan Shrikant Velankar	BIOM ETRX	1	VIII	BIOM	Robotics in Medicine	Geetha N	BIOM
2	VII	CMPN	Robotics (elective)	Mandar Sohani Avinash Shrivasa	CMPN	2	VIII	INFT	Robotics	Santosh Tamboli	INFT
Total Load Even				Total 4 members		Total Load Even				Total 2 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
34	AI and Machine learning	IL	Avinash Shrivastava Assistant Professor 9819261821	Mr. Devesh Rajadhyax CEO, CereLabs, Mumbai 9819106055	Dr. S. G. Bhirud Professor, Computer Dept., VJTI 9911117297

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	VII	CMPN	Artificial Intelligence & Soft Computing / 36	Sachin Deshpande Avinash Shrivastava Dr. Umesh Kulkarni Amit Nerurkar	CMPN	1	VIII	CMPN	Machine Learning (DLE)	Avinash Shrivastava Sachin Deshpande Mohini Kamat	CMPN
2	ME-I (PG)	CMPN	Natural Language Processing / (4Th)	Pankaj Vanwari		2	ME-II (PG)	CMPN	Advanced Soft Computing /06 (4Th+2P)	Dr. S. A. Patekar Amit Nerurkar	CMPN
3	ME-I (PG)	CMPN	Computational Intelligence / 4 (4Th)	Dr. Vipul Dalal	CMPN	3	ME-II (PG)	INFT	AI & Machine Learning / (4Th)	Avinash Shrivastava	CMPN
4	VII	EXTC	Neural Network & Fuzzy Logic / 12 (4Th+8P)	Vibha Wali	CMPN						
5	VII	ETRX	Neural Network and Fuzzy Logic	Dr. Nayana Mahajan Vivek Patkar	EXTC						
6	VII	INFT	Artificial Intelligence/12	Ichhanshu Jaiswal	ETRX						
7	VII	INFT	Intelligence Systems Lab/24	Ichhanshu Jaiswal Shashikant Mahajan							

10	VII	INFT	Soft Computing	Shruti Agrawal						
11	ME-I	INFT	Knowledge Management	Icchanshu Jaiswal Dr. Sachin Bojewar						
Total Load Odd				Total 13 members		Total Load Even				Total 6 members

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation – Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
35	Computer Graphics	IL	Santosh Tamboli INFT-Assistant Professor 9867211982	Mr. Kayomarz Karai St Angelo Sr. Animation & VFX Trainer 9167715574	Dr. Dhanan Professor, VJTI Computer Department

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	INFT	Computer Graphics and Virtual Reality / 36	Shruti Agarwal	INFT	1	IV	CMPN	Computer Graphics / 30	Sachin Deshpande Ravindra Sangale	CMPN
						2	VI	INFT	Multimedia System	Vidya Chitre Harshali Rambade	INFT
						3	VI	CMPN	Multimedia System	Sneha A	CMPN
Total Load Odd			36	Total 1 members		Total Load Even			30	Total 5 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation – Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
36	Big Data Analytics & Data Science	IL	Vidya Chitre INFT Department, Assistant Professor -9702476405	Ms. Anuradha Bhatia SStandard Chartered Bank Ltd	Dr. S.K.Shinde, Chairman, BOS CMPN, MU, 9594170066

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	ME-I	INFT	Data Science	Varsha Bhosle	INFT	1	VIII	INFT	Big Data Analytics/12	Dr. Deepali Vora Santosh Tamboli	INFT
2	VII	EXTC	Big Data Analytics	Vibha Wali	EXTC	2	VIII	INFT	Big Data Analytics Lab/24	Dr. Deepali Vora Santosh Tamboli Shruti Agrawal	INFT
3	VII	CMPN	Big Data & Analytics (DLE)	Mohini Kamat	CMPN	3	ME-II	CMPN	Data Science	Varsha Bhosle Dr. Murugan Gopal	CMPN
Total Load Odd				Total 3 members						Total 5 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation – Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
37	System Software	IL	Pankaj Vanwari Assistant Professor 9820232628	Mr. Jayant Dani Product Owner-Master Card, TCS. 9223315183	Dr. Manish Pote Professor, K.J Somaiya college 97699 44994.

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	CMPN	Advanced Operating System (DLE)	Dr. Murugan Gopal Pankaj Vanwari Snehal Andhare Amit Aylani	CMPN	1	IV	CMPN	Operating System / 12	Pankaj Vanwari Snehal Andhare Rasika Ransingh	CMPN
2	V	CMPN	Theory of Computer Science /12	Pankaj Vanwari, Ravindra Sangale, Suja Jayachandran, Mohini Kamat	CMPN	2	IV	CMPN	Open Source Tech Lab		CMPN
3	V	EXTC	Automata Theory		EXTC	3	IV	INFT	Automata Theory /12	Rohit Barve Akshay Loke	INFT
4	VII	INFT	High Performance Computing	Vidya Chitre	INFT	4	IV	INFT	Operating System	Ichchanshu Jaiswal Shashikant Mahajan	INFT
						5	VI	CMPN	System Programming and Compiler Construction / 36	Pankaj Vanwari / 8 (4+4) Suja Jayachandran / 12(4+8)	CMPN
						6	VIII	CMPN	Distributed Computing /	Amit Nerurkar / 20 (8+12) Dr. Umesh Kulkarni /8 (0+8)	CMPN

										Avinash Shrivastava / 8 (4+4)	
					6	ME II (PG)	CMPN	High Performance Computing / 04		Dr. Umesh Kulkarni/4	INFT
					7	ME II (PG)	INFT	High Performance Computing / 04		Vidya Chitre / 4	INFT
Total Load Odd										Total 12 members	
										Total 8 members	
										Total Load Odd	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation – Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
38	Software Engineering and Project Management	IL	Dr. Sachin Bojewar Department of I.T, Professor 9323232781	Mr. Girish Dandhige TCS , Ex Program Director - 9223338673	Dr. Radha Shankarmani SPIT, Dean Quality Assurance, Professor and Head of Information Technology. 9821691846

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	VII	INST	Disaster Management & Mitigation Measures	Dr. Sachin Bojewar	INFT	1	VI	CMPN	Software Engineering	Kavita Shirsat Sneha Annappanavar Ravindra Sangle Divya Surve Prita Patil Snehal Andhare	CMPN
2	VII	INFT	Software Testing and Quality Assurance DLO	Arpita Raut Deepali Srikhande	INFT	2	VI	INFT	Software Engineering with Project Management	Dr. Sachin Bojewar Deepali Shrikhande Ajay Dhruv Debarati Ghoshal	INFT
3	VII	INST	Management Information System	Dr. Saurabh Mehta Vidya Chitre Suja Jaychandran Dr.Sachin Bojewar	EXTC INFT CMPN	3	VI	INFT	Software Architecture	Santosh Tamboli	INFT
4	ME-I	INFT	User Experience Engineering	Dr. Sachin Bojewar	INFT	4	VIII	CMPN	Human Machine Interaction	Dr. Murgan Gopal Swapnil sonawane	CMPN
5	ME-I	INFT	Advanced Software Architecture	Dr.Sachin Bojewar	INFT	5	VIII	INFT	Project Management	Dr.Sachin Bojewar	INFT

				Dr.Deepali Vora Dr. Umesh Kulkarni							
6	ME-I	ALL	Disaster Management & Mitigation Measures	Dr. Sachin Bojewar	INFT	6	VIII	INFT	DevOps Lab	Yash Shah, Rohit Barve, Indu Anoop	INFT
						7	VIII	INFT	User Interaction Design	Dr. Sachin Bojewar	INFT
						8	ME II	INST	Advance Software Quality Assurance	Dr. Sachin Bojewar Dr.Deepali Vora	INFT
						9	VI	CMPN	Enterprise Resource Planning (DLE)	Suja Jayachandran	CMPN
						10	VIII	INFT	Enterprise Resource Planning * (Institute level Elective)	Dr. Sachin Bojewar Akshay Loke Suja Jayachandra	INFT
Total Load Odd				Total 8 members						Total 19 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation – Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
39	Information Security	IL	Dr. Dilip Motwani Associate Professor- 9820804727	Mr Sameer Ratolikar-SVP 7 CISO Chief Information Security Officer HDFC Bank 9820303045	Dr Deven Shah, Thakur COE, Chairman Board of Study INFT- 9029726083

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	VII	INST	Cyber Security & Laws	Dr Dilip Motwani Vinita Bhadiwad	CMPN INFT	1	VI	INFT	Digital Forscenic	Dr. Swati Sinha	INFT
2	VII	CMPN	Advance System Security & Digital Forensics (DLE)	Dr. Dilip Motwani	CMPN	2	VI	CMPN	Cryptography & System Security	Dr. Dilip Motwani Dr. Murgan Gopal	CMPN
3	VII	INFT	Infrastructure Security/12	Yash Shah	INFT	3	ME- II	CMPN	Ethical Hacking & Digital Forensic	Dr. Dilip Motwani	CMPN
4	VII	INFT	Advanced Security Lab/24	Yash Shah	INFT	4	ME- II	INFT	Security & Risk Management	Dr. Swati Sinha Ajay Dhruv	INFT
5	VII	INST	Cyber Security and Laws <i>*(Elective)</i>	Ranjana Gite Harshada Rajale	EXTC	5	ME-II	INFT	Ethical Hacking & Forensic	Yash Shah	INFT
Total Load Odd				Total 5 members		Total Load Odd				Total 5 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation – Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
40	Database	IL	Dr. Deepali Vora INFT-Assistant Prof. 9821570755	Mr. Amit Saple Rave Technologies Pvt. Ltd Business Analyst 9967547699	Dr. S. K. Shinde L.T. College of Engg Professor & Chairman BOS 9594170066

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	III	INFT	Database Management System/12	Dr.Deepali Vora , Debarati Ghoshal, Vidya Chitre	INFT	1	VI	INFT	Data Mining and Business Intelligence	Vidya Chitre Arpita Raut	INFT
2	III	INFT	SQL LAB/18	Dr.Deepali Vora , Debarati Ghoshal, Vidya Chitre, Rohit Barve	INFT	2	VI	CMPN	Advanced Database System (DLE)	Dr. Vipul Dalal Pankaj Vanwari Sachin Deshpande Kavita Shirsat	CMPN
3	V	INFT	Advanced Data Management Technology	Arpita Raut	INFT	3	VI	CMPN	Data Warehousing and Mining	Dr. Vipul Dalal Prita Patil Kavita Shirsat	CMPN
4	V	ETRX	Data Base And Management System	Shrikant Velankar Devendra Pandit Rasika Ransingh	ETRX CMPN	4	VI	EXTC	Database Management System	Vibha Wali Atul Oak	EXTC
5	V	BIOM	Healthcare Database Management	Rohit Barve Komal Lawand	INFT BIOM						
6	V	CMPN	Database management System	Pankaj Vanwari Sachin Deshpande Dr. Vipul Dalal Kavita Shirsat Prita Patil	CMPN						
Total Load Odd				Total 14 members		Total Load Even				Total 11 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
41	Web and E-commerce	IL	Kavita Shirsat Computer Engg. Department , Assistant Professor Mobile No: 9870269896	Mrs Priti Dalvi Pragati Software Ltd. Designation Senior Corporate Trainer priti.dalvi02@gmail.com Mobile No : 9820492292	

Odd Semester Subject Details					Even Semester Subject Details						
Sr. No.	Sem.	Dept.	Subject / Total Load	Members	Dept.	Sr. No.	Sem.	Dept.	Subject / Total Load	Members	Dept
1	V	CMPN	Web Design Technology Laboratory	Prita patil Suja Jaychandran	CMPN	1	VI	INFT	Advance Internet Programming	Harshali Rambade	INFT
2	V	INFT	Internet Programming	Harshali Rambade Rohit Barve	INFT	2	VIII	INST	Digital Business Management	Visiting Faculty	INFT
2	V	INFT	E-Commerce	Bhanu Tekwani	INFT	3	ME-II	INFT	Advance Internet Technology	Dr. Deepali Vora	INFT
3	VII	EXTC	Internet Communication Engineering	Sayli Todkari Snehal Ashtekar Swapnil Ashtekar	EXTC	4	ME-II	INFT	E- Business & Social Network Analysis	Hrashali Rambade Bhanu Tekwani Rohit Barve	INFT
Total Load Odd				Total 8 members		Total Load Even			40	Total 5 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
42	Ad-hoc Networks	IL	Dr. Saurabh Mehta Electronics and Telecommunication Engineer Professor -9833955002	Mr. Sachin Sadare Digital Dojo, Founder-982591561	Prof. R D. Daruwala, VJTI , Professor in Electronics Engg. 9619209105

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	ME-1	EXTC	Modern Digital Communication (4Th)	Santosh Jagtap	CMPN	1	VIII	CMPN	Adhoc Wireless Networks * (Elective)	Pankaj Vanwari	CMPN
2	ME-1	EXTC	Next Generation Networks (4Th)	Dr. Saurabh Mehta	EXTC	2	ME-2	EXTC	Ad-hoc Wireless Sensor Networks	Dr. Saurabh Mehta	EXTC
3	V	EXTC	Open Source Technology for Communication Lab	Dr. Saurabh Mehta Snehal Ashtekar Swapnil Ashtekar Prathamesh Mestry	EXTC	3	VIII	INST	IPR & Patenting	Dr. Saurabh Mehta	EXTC
4	VII	INST	Energy Audit & management	Dr. Saurabh Mehta	EXTC						
5	ME I	INFT	Adhoc Networks	Neha Kudu Dr.Swati Sinha	INFT						
Total Load Odd				Total 7 members		Total Load Even				Total 3 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
43	System Design & Research Methodology	IL	Dr. Sanjay Singh Thakur Electronics and Telecommunication Engg. ,Professor -9833955002	Mr. Rajesh Rangari Scientist, SAMEER IITB 9869022582	Prof. C. S. Rawat VESIT, Chembur 9821842347

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	VII	INST	Reliability engineering	Dr. Sanjay Singh Thakur Datratray Bade	EXTC	1	VIII	INST	Research Methodology	Dr. Sanjay Singh Thakur Dr. Saurabh Mehta	EXTC
2	VII	INST	Design of Experiments	Dr. Sanjay Singh Thakur	EXTC						
3	VII	INST	Development Engineering	Dr. Sanjay Singh Thakur	EXTC						
Total Load Odd				Total 2 members		Total Load Even				Total 2 members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
44	Economics & Management	IL	Dr. Amit Oak		

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
						1	VIII	INST	Finance Management	Dr. Amit Oak Trupti Naik	MMS
						2	VIII	INST	Entrepreneurship Development & Management	Jay Bhat	MMS
						3	VIII	INST	Human Resource Management	Dr. Saurabh Mehta	EXTC
						4	VIII	INST	Professional Ethics in CSR	Visitng Faculty	-
Total Load Odd				Total members		Total Load Even				Total members	

Cluster Serial No.	Cluster Name	Institute Cluster (IL) / Departmental Cluster (DL)	VIT Cluster Mentor Details/ Dept. – Designation - Contact Number	External Industry Cluster Mentor Details / Company – Designation – Contact Number	External Academic Cluster Mentor Details / Institute – Designation – Contact Number
45	Advanced Mathematics	IL	Prof. Sampat Mali Assistant Professor, Department of First Year of Engineering, Applied Maths		Dr. Tathagat Sengupta Professor, BARC Mob. N :- 7900056275

Odd Semester Subject Details				Members	Dept.	Even Semester Subject Details				Members	Dept
Sr. No.	Sem.	Dept.	Subject / Total Load			Sr. No.	Sem.	Dept.	Subject / Total Load		
1	V	BIOM	Biostatistics	Sampat Mali Priyanka Shrivastava	FE						
2	III	CMPN	Discrete Mathematics	Sanjeev Dwivedi Ravindra Sangle Prakash Parmar	CMPN						
3	VII	INST	Operational Research	Girish Gidaye Sampat Mali	ETRX FE						
Total Load Odd				Total 6 members		Total Load Even				Total members	

NOTICE

VLSI and IC Technology cluster Subject workshop online meetings are scheduled as below:

S. No.	Date	Time	Agenda
01	10-07-2021	10 am to 11 am	General discussions on <ul style="list-style-type: none">• Micro level plan including AAP• Academic check list• Value added assignments• Practical with learning by doing approach• Cocurricular / BSA activities of the course
02	16-07-2021	4 pm to 6 pm	EXTC Course DVLSI -AAP finalization
03	22-07-2021	11 am to 1.30 pm	BIOM Course BVLSI-AAP finalization
04	22-07-2021	2.00 pm to 3.30	BIOM Course BVLSI-Expt list finalization

Venue: F 201 A

All are requested to make it convenient to attend the same.



Cluster Mentor

Dr. Sangeeta Joshi

(Professor and Technical Advisor)

Series of meetings of VLSI and IC cluster are conducted as per the schedule. Following members attended the meeting

Sr. No.	Names	Meeting attendance	Department	Signature
1.	Sangeeta Joshi	All Meetings	ETRX	
2	Prof. Satendra Mane	Meetings on <ul style="list-style-type: none"> • 10-07-2021(part-1) • 16-07-2021(part-2) 	EXTC	
3	Prof. Girish Gidaye	Meetings on <ul style="list-style-type: none"> • 10-07-2021(part-1) • 22-07-2021 (part 3) • 22-07-2021 (part 4) 	ETRX	
4	Prof. Geetha Narayanan	Meetings on <ul style="list-style-type: none"> • 10-07-2021(part-1) • 22-07-2021 (part 3) • 22-07-2021 (part 4) 	BIOM	
5	Prof. Tejal Page	Meetings on <ul style="list-style-type: none"> • 10-07-2021(part-1) • 16-07-2021(part-2) 	EXTC	

Encl: All Minutes of Meeting in the form of Report



Cluster Mentor

Dr. Sangeeta Joshi

(Professor and Technical Advisor)

Minutes of Meeting (Part-1):

Date: 12-07-2021

Time: 11 am to 12 pm

At the outset of the meeting, Dr. Sangeeta Joshi, Cluster Head, introduced the purpose of the meeting along with the agenda. Dr Joshi discussed the following points:

1. Following four subjects are in the curriculum for the ODD semester

S. No.	Programme	Core/Elective	Sem	Course Name
1.	ETRX	Elective	VII	ICT
2.	BIOM	Elective	V	BVLSI
3.	BIOM	Core	VII	BVLSI
4.	EXTC	Core	VII	DVLSI

1. It is decided to complete the subject workshop for two core subjects and remaining two elective subjects, detailed workshops shall be conducted after the results of faculty and elective choices.
2. Teaching -Learning Schedule during Trial week (week-0): As explicit slots are allotted to each faculty; individual department faculties shall discuss among themselves regarding the content delivery during trial week. This facilitates to avoid repetition of the same basic portion.
3. It is also decided to follow the general strategy as: The faculty who delivers first session in the trial week shall discuss AAP covering Syllabus, Books, VACs, BSAs etc. and the other faculty shall deliver explicitly different concepts based on separate topics.
4. Dr. Joshi also guided regarding the requirements and expectations in each of the following points in detail
 - a. Value added assignments
 - b. Practical with learning by doing approach
 - c. Cocurricular / BSA activities of the course

Meeting ended with thanks to the Chair.

Minutes of Meeting (Part-2):

Date: 16-07-2021

Time: 4:00 pm to 6:00 pm

At the outset of the meeting, Dr. Sangeeta Joshi, Cluster Head, introduced the purpose of the meeting along with the agenda. Dr Joshi gave inputs on the following points in AAP of the course DVLSI of ETXC Engineering (Sem7):

1. Course Outcomes specified in the syllabus issued by the Mumbai University may be considered for the theory as well as Lab course.
2. CO-PO mapping needs to be reworked. Strength of mapping S,M and L w.r.t. PO needs a thought process w.r.t. Blooms taxonomy.
3. Higher order POs can not get mapped to all Cos. So co-curricular activities are required to be carried out for higher order PO attainment.
4. CO-PSO mapping also needs to be reworked.
5. More no of E Books need to be added in the AAP
6. Value added courses were discussed. Suggested to add Entuple Pvt. Ltd., Bangalore courses to be added in the AAP
7. NPTEL video discussion were done for various courses.
8. PBL activities were discussed. More PBL questions shall be given to the student
9. BSA activities proposed in AAP are discussed and suggested to have co-curricular activities for higher order PO attainment
10. Assignments proposed in the AAP are reviewed thoroughly and gave inputs on value addition

Meeting ended with thanks to the Chair.

Minutes of Meeting (Part-3):

Date: 22-07-2021

Time: 11:00 am to 1:30 pm

At the outset of the meeting, Dr. Sangeeta Joshi, Cluster Head, introduced the purpose of the meeting along with the agenda. Dr Joshi gave inputs on the following points in AAP of the course BVLSI of BIOM Engineering (Sem 7):

1. CO-PO mapping needs to be reworked. Strength of mapping S,M and L w.r.t. PO needs a thought process w.r.t. Blooms taxonomy.
2. Higher order POs can not get mapped to all Cos. So co-curricular activities are required to be carried out for higher order PO attainment.
3. CO-PSO mapping also needs to be reworked.
4. As Syllabus is basically comprising of Design, Technology and programming, it is decided to start with Module 3 i.e. VLSI design portion and then technology part. After 4 -5 lab sessions, VHDL can be started in Lab sessions
5. It is also decided to have IA-1 and IA-2 Tests on module 3,4,5 and 6. VHDL programming shall be practiced and separate exam shall be conducted for the same.
6. Various text and reference book contents are discussed w.r.t. syllabus.
7. It is also decided to have weekly meetings of subject related faculty to discuss on VHDL programming and implementation.
8. Various MOOC and value added courses to be carried out by students are discussed.
9. Rubric for Grading and Marking of Term Work is discussed and unanimously decided to have MOCK viva of the students before final lab exam.
10. It is decided to have POP quizzes per module and practice assignments based on VHDL programs and Threshold Voltage calculations.
11. BSA activities proposed in AAP are discussed and suggested to have co-curricular activities for higher order PO attainment
12. Assignments proposed in the AAP are reviewed thoroughly and gave inputs on value addition
13. Flexibility is given to individual faculty for carrying our BSA and course co-curricular activities.

Meeting ended with thanks to the Chair.

Minutes of Meeting (Part-4):

Date: 22-07-2021

Time: 2:00 am to 3:30 pm

At the outset of the meeting, Dr. Sangeeta Joshi, Cluster Head, introduced the purpose of the meeting along with the agenda. Dr Joshi gave inputs on the following points in AAP of the course BVLSI of BIOM Engineering (Sem 7):

1. List of experiments specified in the syllabus is discussed. Due to constraints of online teaching-learning (nonavailability of laptops with students) and problems related to successful installation of Xilinx on the machines, it is decided to have the experiments based on the following simulators for the specific purposes

S. No.	Name of the Simulator	Purpose
1.	NGSPICE /LTSPICE circuit simulator	Coding for MOSFET and Inverter characteristics and comparative analysis
2.	aTCAD lab on nonohub.org	Process simulation
3.	DSCH2 simulator	Design of Combinational and sequential logic circuits
4.	Microwind simulator	layout
5.	Xilinx	VHDL programming

2. It is decided to add aTCAD lab on nonohub.org for oxidation and diffusion related new experiments

S. No.	Title of the Experiment
1	Simulation of oxidation process using ATCAD Lab of Nanohub.org.in and study impact of temperature on thickness for dry and wet oxidation.
2	Simulation of diffusion process using ATCAD Lab of Nanohub.org.in

3. Based on the table specified in the above table following experiments are suggested as regular expt.

S. No.	Title of the Experiment
1.	Study of NG SPICE / LTSPICE CAD Tool for VLSI Design

2.	Study of input-output (Id-Vd) and transfer (Id-Vg) characteristics of nMOS and pMOS Enhancement type device using NGspice.
3.	Study of input-output (Id-Vd) and transfer (Id-Vg) characteristics of nMOS and pMOS Depletion type device using NGspice
4.	Find out noise margin of the resistive type of nMOS inverter with $R_L=200k$, $V_{dd}=5V$, $K_n'=200\mu A/V^2$, $V_{TO} = 0.8V$, $W/L=2$. Also find verify the same analytically.
5.	Study the effect of variation of R_L on VTC resistive type of nMOS inverter. Also comment on the Noise margin.
6.	To study VTC of CMOS Inverter. Find out the noise margin and also study the effect of transistor sizing on VTC.
7.	To study the effects of the variations of K_R values on VTC of CMOS inverter
8.	Implementation of Inverters with different technologies: Bipolar, nMOS and CMOS
9.	A. Introduction to Microwind for VLSI Design B. Draw layout for given aspect ratio and implement CMOS inverter, CMOS NAND, NOR logic gates using Microwind
10.	Implementation of CMOS Combinational Logic Circuits using DSCH2
11.	Design and simulate the layout of CMOS NAND /NOR gates using Microwind
12.	Introduction to VHDL programming
13.	Write VHDL code for any combinational logic circuit and simulate the same
14.	Write VHDL code for any sequential logic circuit and simulate the same

4. It is decided to have the following PBL experiments

S. No.	Title of the Experiment
1	Design a circuit to give stock details of the medicines available in the pharmacy using pass transistors in DSCH2.
2	Design a patient monitoring system using 4 input parameters and an alarm output using CMOS Logic in DSCH2
3	Develop an object detecting system for blind using NMOS logic in DSCH2.
4	Develop a logic for "Biomedical Sleep Inducer" using transmission gate logic in DSCH2

Meeting ended with thanks to the Chair.