



Since 1993

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools

SL.NO.	CONTENT	PAGE NUMBER
	EXPERIENTIAL LEARNING	
1	Extensive Srvey Camp	2-6
	Extensive survey project certificates	7-11
	List of projects sanctioned under KSCST	12-23
	Annual project Exhibition participation certificates	24-30
	Research paper published in IJERT Conference	31-33
	Internship List	34-50
	Internship Certificate	51-60
	AICTE Activity Point Programme list and Certificates	61-74
	Laboratory Schemes	75-93
Industrial Visit	94-101	
	PARTICIPATIVE LEARNING	
2	ICT facilities with e-learning resources at departments	102-110
	Virtual lab	111-122
	Activity List and sample Reports	123-141
	Quiz	142-147
	Mini Project list	148-150
	Technical Papers	151-170
	Placement training Programme	171-185
	PROBLEM-SOLVING METHODOLOGY	
3	Tutorial classes	186-194
	Technical quizzes	195-203
	Assignments	204-205
	Final year project list	206-221
	Technical seminar list	222-224
	ICT TOOLS	
4	Microsoft Teams Screen shots &PPT's	225-230
	ICT-enabled class rooms and smart boards	231-234
	NPTEL and UHV Certificates	235-256
	VTU e-shikshana circular, timetable and classes links	257-261



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka,

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 099

Department Of Civil Engineering

RRIT/ev/2022-23/111

Date: 03-Mar-2023

To,
The principal
RR Institute of technology
Chikkabanavara

Respected sir,

Sub: Conduct of Survey Camp for 18 Scheme 6th Semester (18CVEP68)

Sir,

The survey camp for 18 scheme 6th semester is a part of VTU course curriculum.

The survey camp will be conducted at a place about **12 Kms from RRIT** campus between **13-03-2023 to 30-03-2023**. Totally there are 29 students who will be undergoing the Survey camp consisting of practical training and field work.

It is proposed to collect Rupees 800/- (Rupees Eight Hundred only) from every student undergoing the Survey camp to meet the incidental expenses related to the Survey camp.

Necessary Approval to collect the amount may please be given to enable initiation of the collection process.

*forwarded to management
for approval
mehar 3/3/23*

Regards

[Signature]
HOD CIVIL 03/03/2023

HOD Civil Engg.

R.R. INST. OF TECHNOLOGY
Chikkabanavara, Bangalore - 560 099

R.R. INSTITUTE OF TECHNOLOGY
Chikkabanavara, Bangalore - 560 099

*Collect Rs. 1000/-
Per Student*

[Signature]
Sudhakar



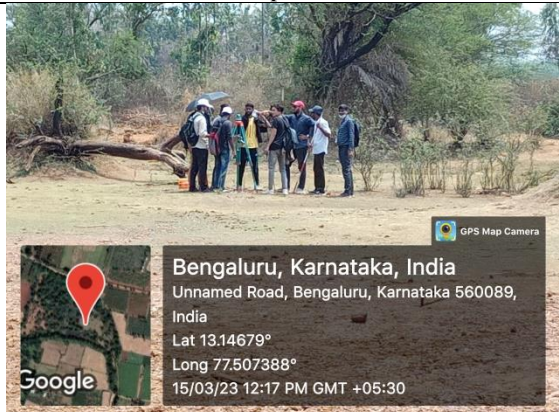
Group Photo



Group Photo



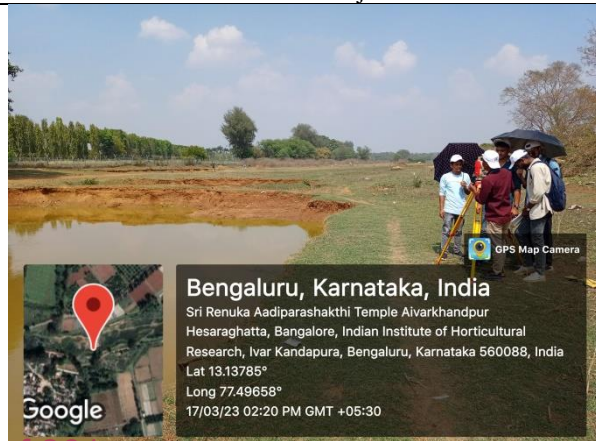
New Tank Project



New Tank Project



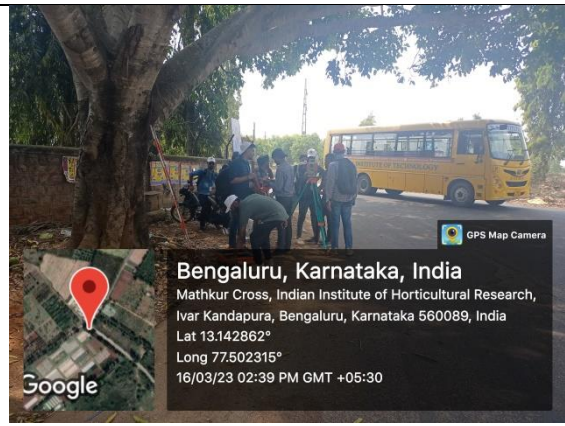
Old Tank Project



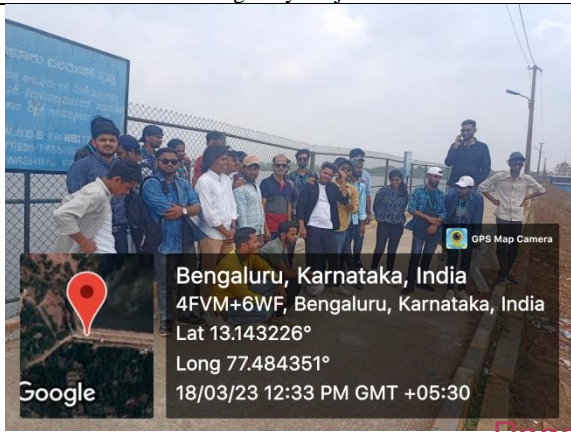
Old Tank Project



Highway Project



Highway Project



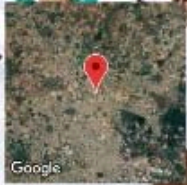
Hesaraghatta Dam Visit



Handing Over Data and Instruments



Gurugrahara lake, Bangalore, Karnataka, ...



Longitude Latitude

77.5105° E 13.0712° N

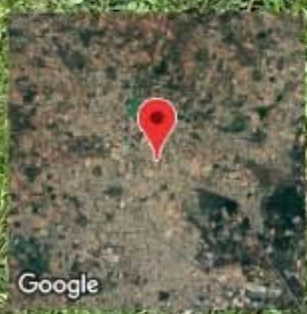
Wednesday, 2022, May, 11

30°C

11:30



Guniagrahara lake, Bangalore, karnataka,...



Longitude

77.5105° E

Latitude

13.0712° N



30° C

Wednesday, 2022, May, 11

11:30

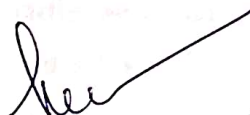
RR INSTITUTE OF TECHNOLOGY

Chikkabanvara, Bangalore-560090




DEPARTMENT OF CIVIL ENGINEERING CERTIFICATE

This is to certify that, the project work entitled "EXTENSIVE SURVEY PROJECT (18CVEP68)" submitted by **GAGAN DINESH (1RI19CV009)** in fulfillment of the requirements for the award of the Bachelor in Civil Engineering, VTU Belagavi, during the academic year 2022-2023 is a bonafide carried by him under our supervision and guidance.



Signature of Camp Officer

Dr. Jagadeesha Kumar B G
Prof. Girish G


Signature of HOD

Dr. kumar R Rao
HOD Civil Engg.

R.R. INST. OF TECHNOLOGY
Chikkabanvara, Bangalore - 560 090




Signature of Principal

Dr. Mahendra K V

PRINCIPAL

R.R. INSTITUTE OF TECHNOLOGY
Chikkabanvara, Bangalore - 560 090.

Signature of External Examiners

1. 
2. 

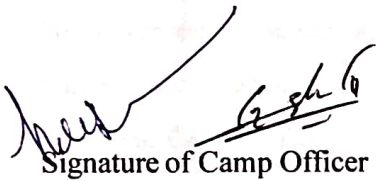
RR INSTITUTE OF TECHNOLOGY

Chikkabanvara, Bangalore-560090



DEPARTMENT OF CIVIL ENGINEERING CERTIFICATE

This is to certify that, the project work entitled "EXTENSIVE SURVEY PROJECT (18CVEP68)" submitted by **AMAN KUMAR PAJIYAR (1RI20CV001)** in fulfillment of the requirements for the award of the Bachelor in Civil Engineering, VTU Belagavi, during the academic year 2022-2023 is a bonafide carried by him under our supervision and guidance.


Signature of Camp Officer

Dr. Jagadeesha Kumar B G
Prof. Girish G




Signature of HOD
HOD CIVIL ENGS
Dr. G. N. RAO
R.R. INST. OF TECHNOLOGY
Chikkabanvara, Bangalore - 560 090

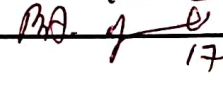


Signature of Principal
Dr. Mahendra K V

PRINCIPAL
R.R. INSTITUTE OF TECHNOLOGY
Chikkabanavara, Bangalore - 560 090.

Signature of External Examiners

1. 

2. 
_____ 17/1/21

RR INSTITUTE OF TECHNOLOGY

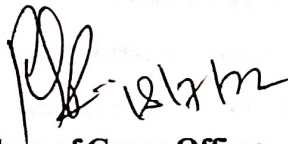
Chikkabanvara, Bangalore-560090



DEPARTMENT OF CIVIL ENGINEERING

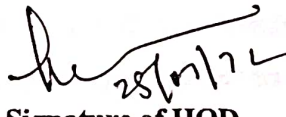
CERTIFICATE

This is to certify that, the project work entitled "**EXTENSIVE SURVEY PROJECT(18CVEP68)**" submitted by **DEV ANAND S(1RI18CV011)**, in fulfillment of the requirements for the award of the Bachelor in Civil Engineering, VTU Belagavi, during the academic year 2021-2022 is a bonafide carried by him under our supervision and guidance.



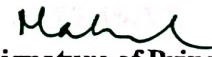
Signature of Camp Officer

Mr. RAVI PATIL



Signature of HOD

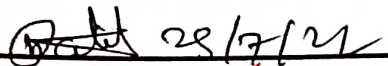
DR. G. SANKARA



Signature of Principal

Dr. MAHENDRA K V

Signature of External Examiners

1.  25/7/22

2.  25/7/22

RR INSTITUTE OF TECHNOLOGY

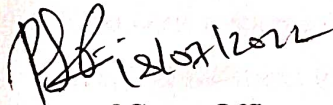
Chikkabanvara, Bangalore-560090



DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

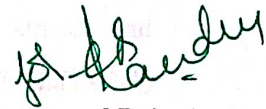
This is to certify that, the project work entitled "**EXTENSIVE SURVEY PROJECT(18CVEP68)**" submitted by **RAMYA T L (1RI18CV033)** in fulfillment of the requirements for the award of the Bachelor in Civil Engineering, VTU Belagavi, during the academic year 2021-2022 is a bonafide carried by him under our supervision and guidance.



Signature of Camp Officer
Mr. RAVI PATIL

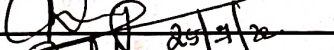
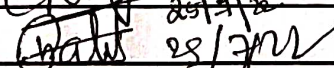


Signature of HOD
DR. G. SANKARA



Signature of Principal
Dr. MAHENDRA K V

Signature of External Examiners

1.  25/1/22
2.  28/1/22

RR INSTITUTE OF TECHNOLOGY

Chikkabanvara, Bangalore-560090



DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE


This is to certify that, the project work entitled "**EXTENSIVE SURVEY PROJECT(18CVEP68)**" submitted by PRABESH BASNET (1RI18CV423) in fulfilment of the requirements for the award of the Bachelor in Civil Engineering, VTU Belagavi, during the academic year 2021-2022 is a bonafide carried by him under our supervision and guidance.

Signature of Camp Officer
Mr. RAVI PATIL

Signature of HOD
DR. G. SANKARA

Signature of Principal
Dr. MAHENDRA K V

Signature of External Examiners

1. 
2. _____



Karnataka State Council for Science and Technology

(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka)

Indian Institute of Science Campus, Bengaluru – 560 012

Telephone: 080-23341652, 23348848, 23348849, 23348840

Email: office.kscst@iisc.ac.in, office@kscst.org.in • Website: www.kscst.iisc.ernet.in, www.kscst.org.in

Dr. U T Vijay

Executive Secretary

24th April, 2023

Ref: 7.1.01/SPP/33

To,
The Principal,
R.R. Institute of Technology,
Raja Reddy Layout, Chikkabanavara,
Hesaraghatta Main Road,
Bengaluru – 560 090.

Dear Sir/Madam,

Sub : Sanction of Student Project - 46th Series: Year 2022-2023

Project Proposal Reference No. : 46S_BE_1519

Ref : Project Proposal entitled **EFFECTIVE UTILIZATION AND MANAGEMENT OF LEFT OVER FOOD**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 46th Series". The project details are as below:

Student(s)	Mr. SHASHANK S	Department	INFORMATION SCIENCE AND ENGINEERING
	Mr. KUSHAL C		
	Ms. DHANYA SHREE M		
	Ms. RAKSHITHA H S		
Guide(s)	Dr. NAVEEN M	Sanctioned Amount (in Rs.)	4,000.00

Instructions:

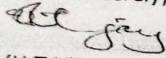
- The project should be performed based on the objectives of the proposal submitted.
- Any changes in the project title, objectives or students team is liable for rejection of the project and your institution shall return the sanctioned funds to KSCST.
- Please quote your project reference number printed above in all your future correspondences.
- After completing the project, 2 to 3 page write-up (synopsis) needs to be uploaded on to the following Google Forms link <https://forms.gle/nWTaJjvrwzp3Wmvt6>. The synopsis should include following:
 - Project Reference Number
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords
 - Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
 - Objectives (about 10 lines)

- 8) Methodology (about 20 lines on materials, methods, details of work carried out, including drawings, diagrams etc)
 - 9) Results and Conclusions (about 20 lines with specific reference to work carried out)
 - 10) Scope for future work (about 20 lines).
- e) In case of incompeted projects, the sanctioned amount shall be returned to KSCST.
 - f) The sanctioned amount will be transferred by NEFT to the bank account provided by the College/Institute.
 - g) The sponsored projects evaluation will be held in the Nodal Centre/Online Mode and the details of the same will be intimated shortly by email / Website announcement.
 - h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and student(s) shall be uploaded in the following Google Forms Link <https://forms.gle/YWz56TrGg7fnSQgc7>. The report should be prepared in the format prescribed by the university.

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.org.in

Thanking you and with best regards,

Yours sincerely,



(U T Vijay)

Copy to:

- 1) The HoD
INFORMATION SCIENCE AND ENGINEERING
R.R. INSTITUTE OF TECHNOLOGY, BENGALURU
- 2) Dr. NAVEEN M
INFORMATION SCIENCE AND ENGINEERING
R.R. INSTITUTE OF TECHNOLOGY, BENGALURU
- 3) THE ACCOUNTS OFFICER
KSCST, BENGALURU



Karnataka State Council for Science and Technology

(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka)

Indian Institute of Science Campus, Bengaluru – 560 012

Telephone: 080-23341652, 23348848, 23348849, 23348840

Email: office.kscst@iisc.ac.in, office@kscst.org.in • Website: www.kscst.iisc.ernet.in, www.kscst.org.in

Dr. U T Vijay
Executive Secretary

24th April, 2023

Ref: 7.1.01/SPP/33

To,
The Principal,
R.R. Institute of Technology,
Raja Reddy Layout, Chikkabanavara,
Hesaraghatta Main Road,
Bengaluru – 560 090.

Dear Sir/Madam,

Sub : Sanction of Student Project - 46th Series: Year 2022-2023

Project Proposal Reference No. : 46S_BE_0999

Ref : Project Proposal entitled **WEATHER FORECASTING AND MINIMUM SUPPORT PRICE PREDICATION OF CROPS**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 46th Series". The project details are as below:

Student(s)	Mr. JAVED CHOWDHURY	Department	INFORMATION SCIENCE AND ENGINEERING
	Mr. VYAS BALAKRISHNA R		
	Ms. BABITA KURMI		
	Ms. MEGHASHREE ROY		
Guide(s)	Dr. NAVEEN M	Sanctioned Amount (in Rs.)	4,000.00

Instructions:

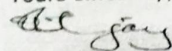
- The project should be performed based on the objectives of the proposal submitted.
- Any changes in the project title, objectives or students team is liable for rejection of the project and your institution shall return the sanctioned funds to KSCST.
- Please quote your project reference number printed above in all your future correspondences.
- After completing the project, 2 to 3 page write-up (synopsis) needs to be uploaded on to the following Google Forms link <https://forms.gle/nWtaJjvrvzp3Wmvvt6>. The synopsis should include following:
 - Project Reference Number
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords
 - Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
 - Objectives (about 10 lines)

- 8) Methodology (about 20 lines on materials, methods, details of work carried out, including drawings, diagrams etc)
 - 9) Results and Conclusions (about 20 lines with specific reference to work carried out)
 - 10) Scope for future work (about 20 lines).
- e) In case of incompeted projects, the sanctioned amount shall be returned to KSCST.
 - f) The sanctioned amount will be transferred by NEFT to the bank account provided by the College/Institute.
 - g) The sponsored projects evaluation will be held in the Nodal Centre/Online Mode and the details of the same will be intimated shortly by email / Website announcement.
 - h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and student(s) shall be uploaded in the following Google Forms Link <https://forms.gle/YWz56TrGg7fnSQgc7>. The report should be prepared in the format prescribed by the university.

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.org.in

Thanking you and with best regards,

Yours sincerely,



(U T Vijay)

Copy to:

- 1) The HoD
INFORMATION SCIENCE AND ENGINEERING
R.R. INSTITUTE OF TECHNOLOGY, BENGALURU
- 2) Dr. NAVEEN M
INFORMATION SCIENCE AND ENGINEERING
R.R. INSTITUTE OF TECHNOLOGY, BENGALURU
- 3) THE ACCOUNTS OFFICER
KSCST, BENGALURU



Karnataka State Council for Science and Technology

(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka)

Indian Institute of Science Campus, Bengaluru – 560 012

Telephone: 080-23341652, 23348848, 23348849, 23348840

Email: office.kscst@iisc.ac.in, office@kscst.org.in • Website: www.kscst.iisc.ernet.in, www.kscst.org.in

Dr. U T Vijay
Executive Secretary

Ref: 7.1.01/SPP/33

24th April, 2023

To,
The Principal,
R.R. Institute of Technology,
Raja Reddy Layout, Chikkabanavara,
Hesaraghatta Main Road,
Bengaluru – 560 090.

Dear Sir/Madam,

Sub : Sanction of Student Project - 46th Series: Year 2022-2023

Project Proposal Reference No. : 46S_BE_1239

Ref : Project Proposal entitled **ASSISTIVE DEVICE FOR DEAF, DUMB AND BLIND USING RASPBERRY PI**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 46th Series". The project details are as below:

Student(s)	Ms. RUPAM PAL	Department	INFORMATION SCIENCE AND ENGINEERING
	Ms. ADITI SAHU		
	Mr. ROHIT VIKRAM		
	Mr. RAUNAK RAJ		
Guide(s)	Dr. ERAPPA G	Sanctioned Amount (in Rs.)	4,000.00

Instructions:

- The project should be performed based on the objectives of the proposal submitted.
- Any changes in the project title, objectives or students team is liable for rejection of the project and your institution shall return the sanctioned funds to KSCST.
- Please quote your project reference number printed above in all your future correspondences.
- After completing the project, 2 to 3 page write-up (synopsis) needs to be uploaded on to the following Google Forms link <https://forms.gle/nWTaJjvrwzp3Wmvt6>. The synopsis should include following:
 - Project Reference Number
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords
 - Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
 - Objectives (about 10 lines)

- 8) Methodology (about 20 lines on materials, methods, details of work carried out, including drawings, diagrams etc)
- 9) Results and Conclusions (about 20 lines with specific reference to work carried out)
- 10) Scope for future work (about 20 lines).
- e) In case of incometed projects, the sanctioned amount shall be returned to KSCST.
- f) The sanctioned amount will be transferred by NEFT to the bank account provided by the College/Institute.
- g) The sponsored projects evaluation will be held in the Nodal Centre/Online Mode and the details of the same will be intimated shortly by email / Website announcement.
- h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and studetn(s) shall be uploaded in the following Google Forms Link <https://forms.gle/YWz56TrGg7fnSQgc7>. The report should be prepared in the format prescribed by the university.

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.org.in

Thanking you and with best regards,

Yours sincerely,



(U T Vijay)

Copy to:

- 1) The HoD
INFORMATION SCIENCE AND ENGINEERING
R.R. INSTITUTE OF TECHNOLOGY, BENGALURU
- 2) Dr. ERAPPA G
INFORMATION SCIENCE AND ENGINEERING
R.R. INSTITUTE OF TECHNOLOGY, BENGALURU
- 3) THE ACCOUNTS OFFICER
KSCST, BENGALURU

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

Website: <http://www.kscst.iisc.ernet.in/spp.html> || Email: spp@kscst.iisc.ernet.in || Phone: 080-23600978

42nd Series of Student Project Programme: 2018-19

List of Projects Sanctioned Under Stream C

85. R.R. INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROJECT REFERENCE NO.	PROJECT TITLE	BRANCH	DEGREE	NAME OF THE GUIDE	NAME OF THE TEAM LEADER	TOTAL (In Rs.)
1.	42S_BE_1336	ANTI PIRACY SCREENING SYSTEM: MOVIE PIRACY TRACKING USING TEMPORAL VISUAL MODULATION	ELECTRONICS AND COMMUNICATION ENGINEERING	BE	Prof. MOHAN KUMAR B N	Ms. BRUNDA N	7000.00
2.	42S_BE_1340	DESIGN FABRICATION AND ANALYSIS OF PNEUMATIC OCEAN WAVE ENERGY CONVERTOR-2	MECHANICAL ENGINEERING	BE	Dr. SHIVALINGAPPA S KUBSAD	Mr. RAJESH N	9000.00
3.	42S_BE_3008	REDUCTION OF CARBON AND ECONOMIC TREATMENT OF ETTRINGITE FORMATIO	CIVIL ENGINEERING	BE	Mrs. GUNASHEELA P	Mr. BHASKAR R	9000.00

Note:

1. The sanctioned amount will be sent by KSCST to the College by crossed Cheque in the name of the Principal.
2. The evaluation of above projects will be conducted in the Nodal Centre in the month of May / June 2019. During nodal centre evaluation projects will be selected for state level Seminar & Exhibition which will be conducted in the month of July / August 2019.
3. After completion of the projects, the hard copy of the report and soft in .pdf format needs to be sent to KSCST without fail.



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Electronics and Communication & Engineering

Ref: RRIT /ECE/PRSM/2018-19

Date: 22-03-2019

As per the circular Ref: VTU/BGM/Aca - OS/ Gen-Cir/2018-19/10716, Please find the below listed final year projects of the department of Electronics and Communication Engineering for the kind consideration towards the “Financial Assistance for Innovative Projects of Final Year under Graduate Students for the year 2018-19”.

Sl.No	Branch	USN	Name of the Student	Title of the project	Name of the Guide	Remarks
1	ECE	1RI15EC010	Brunda N	Anti Piracy Screening System : Movie Piracy Tracking using Temporal Visual Modulation	Prof. B N Mohan Kumar	
2		1RI15EC013	D Sruthi Reddy			
3		1RI15EC023	Madhu J			
4		1RI15EC046	Surendra S P			
1	ECE	1RI14EC040	Pavithra N	Soldier Position Tracking and Health Monitoring System	Prof . Preamsagar H	
2		1RI15EC024	Manu M			
3		1RI15EC031	Priya B C			

Dr.Manjanatha MB – Chairman ,Principal

Committee Members : 1. Dr. Sunitha HD – Associate Prof & HOD


2. Prof. Parimala Gandhi G - Associate Prof

3. B N Mohan Kumar – Assistant Prof

4. Chandrakumar HS- Assistant Prof


Signature of HOD
HOD of Electronics & Communication
R.R. Institute of Technology
Hesaraghatta Main Road,
Chikkabanavara, Bengaluru - 560 090

Page 19 of 261


Signature of Principal
PRINCIPAL
R.R. INSTITUTE OF TECHNOLOGY
Chikkabanavara, Bangalore-560 90



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka

Accredited by NAAC with Grade 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Electrical and Electronics Engineering Dept.

Ref: RRIT/EEE/PRSM/2018-19

Date: 22/03/2019

With reference to the circular Ref: VTU/BGM/Aca-OS/Gen-Cir/2018-19/10716 dated 2nd March 2019, the following list gives the students name, Title of the project and Guide details for the "Financial Assistance for Innovative Projects of Final Year Under Graduate Students For the year 2018-19".

S.NO	BRANCH	TITLE OF THE PROJECT	NAME OF STUDENT	NAME OF GUIDE	REMARKS
1.	EEE	ELECTRICITY COST REDUCING BY ENERGY MANAGEMENT	ARPITHA S (1RI15EE001) RAKSHITHA G N (1RI15EE006)	Prof. Renukamba J N	
2.		TRANSMISSION LINE FAULT MONITORING AND IDENTIFICATION SYSTEM BY USING INTERNET OF THINGS	BABUGOUDA R J (1RI15EE002) B M VANNESH (1RI15EE007) M.D.SHAMIM KHAN 1RI16EE407)	Prof. R Navaneetha Krishna	

[Signature]
HOD-EEE
 HOD OF ELECTRICAL & ELECTRONICS ENG
 R.R. Institute of Technology
 Hesarghatta Main Road
 Chikkabanavara Bangalore-90

[Signature]
Principal
 PRINCIPAL
 R. R. INSTITUTE OF TECHNOLOGY
 Chikkabanavara, Bangalore-560 90



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Computer science & Engineering

Date: 23/03/2019

Ref:VTU/BGM/Aca-OS/Gen-Cir/2018-19/10716

Financial Assistance for Innovative Projects of Final Year UG Students for the year 2018-19

Sl.No	Branch		Title of the project	Names of the student	Name of Guide	Remarks
1	CSE	1	"A Profile Based Big data Architecture in Agricultural Context"	Bindu S (IR115CS012) Hari Kireeti B K (IR115CS020) Irfan Pasha (IR115CS023) Kavya R (IR115CS025)	Dr.Manjunath R	
		2	"IOT Based Smart Irrigation System"	Prerana D (IR115CS077) Vasuki E M (IR115CS079) Prathibha Mallappa Alakanur(IR116CS405)	Mr.Dhananjaya M K	

23/3/19
PRINCIPAL

R. R. INSTITUTE OF TECHNOLOGY
Chikkabanavara, Bangalore-560 090

Page 21 of 261

23/3/19
HOD
Department of Computer Science
R.R. Institute of Technology
Hesaraghatta Main Road,
Chikkabanavara, Bangalore-90



PKM Educational Trust

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka, Accredited by NAAC with 'B+'
Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Mechanical Engineering

Ref: RRIT/ME/PRSM/2018-19

Date: 22/03/2019

PROCEEDINGS OF THE PROJECT SELECTION COMMITTEE

With reference to the circular Ref: VTU/BGM/Aca-OS/Gen-Cir/2018-19/10716 dated 2nd March 2019, the project selection committee of Mechanical Department conducted a meeting and evaluated all the projects and selected two (2) most deserving projects. The lists of the selected projects are in the table below for **Financial Assistance for Innovative Projects of Final Year under Graduate Students For the year 2018-19.**

Sl. No	Branch	Title of the Project		Names of Student	Name of Guide	Remarks
1	MECHANICAL ENGINEERING	Design, fabrication and analysis of Pneumatic ocean waves energy convertor	1	Mr. Rajesh N	Dr. Amarnath G	
			2	Mr. Darshan K V		
			3	Mr. Gagan J		
			4	Mr. Yathish K J		
2	MECHANICAL ENGINEERING	Performance Test on Four Stroke Petrol / Diesel Engine by the Fuel Produced from Waste Plastics	1	Mr. Rakshith L	Prof. Nagesh Kumar R	
			2	Mr. Harsha B		
			3	Mr. Hemanth P R		
			4	Mr. Dhanush G		

i) Principal – Dr. MB Manjunath – Chairman

ii) HOD – Dr. Channabasavaraj S – Member

iii) Three Subject Experts:

(a) Dr. Amarnath G

(b) Dr. Arulmani L

(c) Prof. Naveen G

HOD-ME

HOD of Mechanical Engineering,
R. R. Institute of Technology,
Mazara Ghatta Main Road,
Chikkabanavara, Bengaluru - 560 090

Principal

PRINCIPAL

R. R. INSTITUTE OF TECHNOLOGY
Chikkabanavara, Bangalore-560 90



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Information Science and Engineering

Ref: RRIT/ISE/PRSM/2018-19

Date: 22/03/2019

PROCEEDINGS OF THE PROJECT SELECTION COMMITTEE

With reference to the circular Ref: VTU/BGM/Aca-OS/Gen-Cir/2018-19/10716 dated 2nd March 2019, the project selection committee of ISE Department conducted a meeting and evaluated all the projects and selected two (2) most deserving projects. The lists of the selected projects are in the table below for **Financial Assistance for Innovative Projects of Final Year Under Graduate Students For the year 2018-19.**

Sl. No.	Branch	Title of the Project	Name of the Student	Name of Guide	Remarks
1	ISE	ASSESSING CROP RESIDUE COVER BY PREDICTING ENVIRONMENTAL LEVELS/ FACTORS	1. Divya B N [1R114IS009] 2. Suma V [1R114IS026] 3. Aishwarya R [1R115IS003]	Prof. Vinod .L .B	
2	ISE	OBSTACLES AVOIDING ROBOT USING CONVOLUTION NEURAL NETWORKS	1. Bikendra Thapaliya [1R115IS010] 2. Bibek Shah Shankar [1R115IS009] 3. Sabin Bista [1R115IS028]	Prof. Arpitha Martin	

1. Principal - Dr. M B Manjunath - Chairman
2. HOD - Prof. Emmanuel Rajarathnam - Member
3. Committee Members
 - i. Prof. Ganesha M
 - ii. Prof. Vani Sathasagar
 - iii. Prof. Swetha K B

HOD-ISE

Information Science and Engineering
R. R. Institute of Technology
Heeraghatta Main Road,
Chikkabanavara, Bangalore - 90

Principal
22/3/19

PRINCIPAL
R. R. INSTITUTE OF TECHNOLOGY
Chikkabanavara, Bangalore-560 90.



P K M EDUCATIONAL TRUST®

ACCREDITED BY NAAC & NBA

R.R. INSTITUTE OF TECHNOLOGY

(AFFILIATED TO VTU, BELAGAVI | APPROVED BY AICTE, NEW DELHI & GOVERNMENT OF KARNATAKA)

Accredited by NAAC & NBA

CERTIFICATE

OF PARTICIPATION

THIS IS TO CERTIFY THAT

Kaushal Singh Kunwar, R.R Institute of Technology.

App Based Real time Localized air quality monitoring & prediction using ML

HAS PARTICIPATED IN STATE-LEVEL PROJECT EXHIBITION

"TECHNOVA 2K23" ORGANIZED BY DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, R R INSTITUTE OF TECHNOLOGY ON MAY 5TH, 2023.

Professor & HOD,
Department of CSE, RRIT Bengaluru

Principal,
RR Institute of Technology, Bengaluru



P K M EDUCATIONAL TRUST®

R.R. INSTITUTE OF TECHNOLOGY

ACCREDITED BY NAAC & NBA

(AFFILIATED TO VTU, BELAGAVI | APPROVED BY AICTE, NEW DELHI & GOVERNMENT OF KARNATAKA)

Accredited by NAAC & NBA

CERTIFICATE

OF PARTICIPATION

THIS IS TO CERTIFY THAT

Bhagyashri.G, R.R Institute of Technology

An Interactive framework to Assist farmers using AI & ML technique

HAS PARTICIPATED IN STATE-LEVEL PROJECT EXHIBITION

"TECHNOVA 2K23" ORGANIZED BY DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, R R INSTITUTE OF TECHNOLOGY ON MAY 5TH, 2023.

Professor & HOD,
Department of CSE, RRIT Bengaluru

Principal,
RR Institute of Technology, Bengaluru



P K M EDUCATIONAL TRUST®

ACCREDITED BY NAAC & NBA

R.R. INSTITUTE OF TECHNOLOGY

(AFFILIATED TO VTU, BELAGAVI | APPROVED BY AICTE, NEW DELHI & GOVERNMENT OF KARNATAKA)

Accredited by NAAC & NBA

CERTIFICATE

OF PARTICIPATION

THIS IS TO CERTIFY THAT

Shashank.S., R.R Institute of Technology.....

Multi-classification deep learning model for diagnising covid-19, Lung cancer.....

HAS PARTICIPATED IN STATE-LEVEL PROJECT EXHIBITION

"TECHNOVA 2K23" ORGANIZED BY DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, R R INSTITUTE OF TECHNOLOGY ON MAY 5TH, 2023.

Professor & HOD,

Department of CSE, RRIT Bengaluru

Principal,

RR Institute of Technology, Bengaluru



Students presenting the final year project titled **“Extraction of bio diesel from waste plastic through pyrolysis process”** at the exhibition of Projects MERAKI 2022



Students presenting the final year project titled **“Design and fabrication of underwater ROV for detecting foreign bodies”** at the exhibition of Projects MERAKI 2022

INNOVATIVE PROJECTS



Students presenting the final year project titled **“Design of smart helmet using microcontroller”** at the exhibition of Projects MERAKI 2022



Students presenting the final year project titled **“Mechanical Beach Cleaners”** at the exhibition of Projects MERAKI 2022



Since 1993

P K M Educational Trust®

R R Institute of Technology

Accredited by NAAC with B+

Meraki - 2019 ANNUAL PROJECT EXHIBITION

Certificate of Award

This is to certify that, the project titled

"HYBRID RENEWABLE POWER SYSTEM DESIGN USING SOLAR, PIEZO ELECTRIC & WIND ENERGY
COMBINED WITH ARDUINO"

with Project members

RAKSHITHA G.N (IR15EE06)

is nominated as **Best Project, Electrical & Electronics Engineering**

in the annual project exhibition held on 3rd May 2019.

Convener
Meraki-2019

HOD, DEPT. OF EEE
Dept. of EEE
Hosa, Patta Main Road

Principal
RRIT



Since 1993

P K M Educational Trust®

R R Institute of Technology

Accredited by NAAC with B+

Meraki - 2019

ANNUAL PROJECT EXHIBITION

Certificate of Award

This is to certify that, the project titled

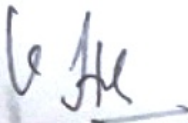
"HYBRID RENEWABLE POWER SYSTEM DESIGN USING SOLAR, PIEZO ELECTRIC & WIND ENERGY COMBINED WITH ARDUINO"

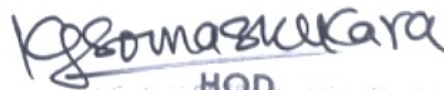
with Project members

ARPITHA.S (CIRI15EE001)

is nominated as **Best Project, Electrical & Electronics Engineering**

in the annual project exhibition held on 3rd May 2019.


Convener
Meraki-2019



HOD,
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
RRIIT
Jashwanthra Main Road


Principal
RRIIT

IJERT

International Journal of
Engineering Research & Technology
www.ijert.org



Certificate Of Publication

This is to certify that

Pronob Jyoti Gogoi

Has published a research paper entitled,

Extraction of Bio-Diesel From Waste Plastic Through Pyrolysis Process

In ACME - 2022, IJERT Conference Proceeding, Volume. 10, Issue. 10

Date: 13-08-2022

A handwritten signature in black ink, appearing to read "D. S. S.", written over a horizontal line.

Chief Editor, IJERT

A handwritten signature in black ink, appearing to read "H. K. S.", written over a horizontal line.

Convener, ACME - 2022

Registration No: IJERTCONV10IS10017

IJERT

International Journal of
Engineering Research & Technology
www.ijert.org



Certificate Of Publication

This is to certify that

Ravi Kumawat N

Has published a research paper entitled,

Extraction of Bio-Diesel From Waste Plastic Through Pyrolysis Process

In ACME - 2022, IJERT Conference Proceeding, Volume. 10, Issue. 10

Date: 13-08-2022

A handwritten signature in black ink, appearing to read 'D. Srinivas'.

Page 02 of 20
Chief Editor, IJERT

A handwritten signature in black ink, appearing to read 'H. K. Sankar'.

Convener, ACME - 2022

Registration No: IJERTCONV10IS10017

IJERT

International Journal of
Engineering Research & Technology
www.ijert.org



Certificate Of Publication

This is to certify that

Kishan G Gaikwad

Has published a research paper entitled,

Green House Monitoring using IoT for Medicinal Plants

In ACME - 2022, IJERT Conference Proceeding, Volume. 10, Issue. 10

Date: 13-08-2022

A handwritten signature in black ink, appearing to be "D. S. Gaikwad".

Chief Editor, IJERT
Page 33 of 261

A handwritten signature in black ink, appearing to be "A. S. Gaikwad".

Convener, ACME - 2022

Registration No: IJERTCONV10IS10016

International Journal of
Engineering Research & Technology



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Electronics & Communication Engineering

INTERNSHIP

Sl.no	USN	Name	Domain	Internal Guide Name	Company name	External guide name	Duration
1	1RI16EC005	CELESTE T	Machine learning with python	Dr.Sunitha H D	iGeeks sampige main road Malleshwaram Bangalore 560003	Haribabu V	9/9/2021 to 9/10/2021
2	1RI18EC001	ABHISHEK GOWDA	Python programming	Dr.Sunitha H D	Softora technology, Bhadrapa layout ,Bangalore	Mr.Suraj	1/9/21 to 30/9/21
3	1RI18EC002	AMIT KUMAR YADAV	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Dr.Sunitha H D	ITI Dooravaninagar, Bangalore	Almeida Nelson C	1/9/21 to 28/9/21
4	1RI18EC004	BHOOMIKA J	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof. Parimala Gandhi	ITI Dooravaninagar, Bangalore	Almeida Nelson C	1/9/21 to 28/9/21

5	1RI18EC006	KIRAN C B	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof. Parimala Gandhi	ITI Dooravaninagar, Bangalore	Almeida Nelson C	1/9/21 to 28/9/21
6	1RI18EC007	M AKHIL	AI machine learning and deep learning using python Embedded system and IOT	Prof. Parimala Gandhi	Edgate technologies pvt ltd Bangalore Take it smart, 3rd phase Yelahanka new town bangalore	1.Mallikarjun kumar 2.Jagannath A	18-08-2021(2 weeks) 1/9/21 to 15/9/21
7	1RI18EC008	MOHAN M	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof. Anshu Deepak	ITI, Dooravaninagar, Bangalore	Almeida Nelson C	1/9/21 to 28/9/21
8	1RI18EC009	NAVEEN C	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof. Anshu Deepak	ITI Dooravaninagar, Bangalore	Almeida Nelson C	1/9/21 to 28/9/21
9	1RI18EC012	SAI PRASANTH S	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof. Anshu Deepak	ITI Dooravaninagar, Bangalore	Almeida Nelson C	1/9/21 to 28/9/21
10	1RI18EC013	SAIKAT BARMAN	Embedded and iot	Prof. Chitharanjandas	Micro embedded solutions	Jagannath A	30/8/2021 to 30/9/2021

11	1RI18EC014	SANJAY K S	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof. Chitharanjandas	ITI Dooravaninagar, Bangalore	Almeida Nelson C	1/9/21 to 28/9/21
12	1RI18EC015	SHIVAKUMAR D N	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof. Chitharanjandas	ITI Dooravaninagar, Bangalore	Almeida Nelson C	1/9/21 to 28/9/21
13	1RI18EC016	TEJASWINI P	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof. Mohan Kumar	ITI Dooravaninagar, Bangalore	Almeida Nelson C	1/9/21 to 28/9/21
14	1RI18EC017	VIRESH HIREMANATH	Embedded and iot	Prof. Mohan Kumar	Take it smart, 3rd phase Yelahanka new town bangalore	Mallikarjun kumar	30/8/21 to 30/9/21
15	1RI19EC402	RAMBATI N	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof. Mohan Kumar	ITI Dooravaninagar, Bangalore	Almeida Nelson C	1/9/21 to 28/9/21

13
OK
2/8/21

[Signature]
CO-ordinator

[Signature] the HOD
2/8/2021
NOD of Electronics & Communication
R.R. Institute of Technology
Hennaghatta Main Road,
Chikkabanavara, Bangalore - 90.



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'
Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Electronics & Communication Engineering

Semester: 8 th sem		subject code: 15/17EC84	INTERNSHIP	Date:2-8-2021			
SL.NO	USN	STUDENT NAME	Domain	Internal guide name	Company name	External guide name	Duration
1	1RI16EC026	SUMA R	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof. Shadakshari	ITI Dooravaninagar, Bangalore	Almeida Nelson C	1/9/21 to 28/9/21
2	1RI16EC035	SUSHMITHA SR	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof. Sugnyani	ITI Dooravaninagar, Bangalore	Almeida Nelson C	1/9/21 to 28/9/21
3	1RI18EC403	ANUSHA K	AI machine learning and deep learning using python	Dr.Geeta K	ITI Dooravaninagar, Bangalore ,	Almeida Nelson C	1/9/21 to 14/9/21
					Edgate 6th Main Road, opp. to BMTC Depot, HMT Layout, RT Nagar, Bengaluru		15-09-2021(2 WEEKS)
4	1RI16EC033	YESHWANTH KUMAR	Robotics systems and internet of things	Dr.Geeta K	Edgate 6th Main Road, opp. to BMTC Depot, HMT Layout, RT Nagar, Bengaluru,	Mr.Manmeet	15/9/21 to 15/10/21
5	1RI17EC004	AMAN KUMAR SINGH	Embedded system design and internet of robotics things	Dr.Geeta K	Edgate 6th Main Road, opp. to BMTC Depot, HMT Layout, RT Nagar, Bengaluru,	Mr.Manmeet	31/8/21 to 31/9/21

6	1RI17EC012	HARIRAM G	Robotics system design	Prof.Sugnyani Patil	Edgate 6th Main Road, opp. to BMTC Depot, HMT Layout, RT Nagar, Bengaluru,	Mr.Manmeet	18/8/21 to 1/9/21
			AI machine learning and deep learning using python				15/9/2021 to 30/9/21
7	1RI17EC013	MARY THOMAS T	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof.Sugnyani Patil	ITI Dooravaninagar, Bangalore,	Almeida Nelson C	1/9/21 to 14/9/21
			AI machine learning and deep learning using python				15/9/21 to 30/9/21
8	1RI17EC019	PUJA MALLANA GOWDAP	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof.Sugnyani Patil	ITI	Almeida Nelson C	1/9/21 to 28/9/21
9	1RI17EC029	RAHUL D	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	PROF. SHYAMALA	ITI	Almeida Nelson C	1/9/21 to 28/9/21
10	1RI17EC022	SHANKARAMMA MALLANA GOWDA	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	PROF. SHYAMALA	ITI	Almeida Nelson C	1/9/21 to 28/9/21

11	1RI16EC007	CHETHAN P C	Embedded system design and internet of robotics things	PROF. SHYAMALA	EdGate 6th Main Road, opp. to BMTC Depot, HMT Layout, RT Nagar, Bengaluru,		31/8/2021 to 31/9/21
12	1RI18EC405	SUSHMA S B	Telephone defence production, switching access productions, research & development, information technology, Quality	Dr.Sunitha H D	ITI , Edgate 6th Main Road, opp. to BMTC Depot, HMT Layout, RT Nagar, Bengaluru,	Almeida Nelson C	1/9/21 to 14/9/21 15-09-2021(2 WEEKS)
13	1RI17EC030	BHANUPRAKASH	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	Prof. Parimala	Technologies Global Pvt Ltd Bangalore	Mr.Sagar Chakrabort	1/9/21 to 30/9/21
14	1RI15EC027	NAKSHA	Telephone defence production, switching access productions, research & development, information technology, Quality assurance & iot	PROF. SHADAKSHARI	ITI	Almeida Nelson C	1/9/21 to 28/9/21
15	1RI16EC030	VIGNESH RAVI CHANDRAN	Telephone defence production, switching access productions, research & development, information technology, Quality	PROF. SHADAKSHARI	ITI, EDGATE	Almeida Nelson C	1/9/21 to 14/9/21 15/9/21 to 30/9/21

ok
ms
2/4/22

PRINCIPAL

[Signature]

R.R. INSTITUTE OF TECHNOLOGY
Chikkabanavara, Bangalore - 560 090.

Co-ordinator

[Signature]

2/8/2021

HOD of Electronics & Communication

R.R. Institute of Technology

Hesaraghatta Main Road,
Chikkabanavara, Bangalore - 90.

Internship details 8th Sem ISE Academic year 2018-2019

Sl NO	USN Number	Student Name	Title of the Internship	Internship Carried at	Internal Guide	External Guide
1	1RI15IS009	BIBEK SHAH S	Book my smart slot(Hardware)	Parvam Consultech	Prof. ARPITHA M	Mr. Raghunath
2	1RI15IS010	BIKENDRA T	Book my smart slot(Software)	Parvam Consultech	Prof. ARPITHA M	Mr. Raghunath
3	1RI15IS028	SABIN BISTA	Handling Database on Data Parse	Parvam Consultech	Prof. ARPITHA M	Mr. Karthik
4	1RI15IS017	KRISHNA R M	Face Detection using Python	Igeeks Technologies	Prof. GANESHA .M	Mr. Zubair
5	1RI15IS037	YOGITHA.M	Face Detection using Python	Igeeks Technologies	Prof. GANESHA .M	Mr. Zubair
6	1RI16IS401	BIBEK K	Movie Ticketing Booking System	Parvam Consultech	Prof. GANESHA .M	Mr. Mubin
7	1RI15IS027	ROHIT UPADHYAY	IOT based Car Parking System	Knowx Innovations	Prof. VANI S	Mis. Uma
8	1RI15IS008	BIBEK KHATRI	Price analyser in application development	Novel innovation	Prof. VANI S	Mr.Rajesh kattel
9	1RI15IS029	SAROJ D	Web application development	Novel innovation	Prof. VANI S	Mr.Rajesh kattel

**R. R. Institute of Technology**

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Information Science and Engineering

10	1RI15IS023	PAVAN N	Temperature Sensor using Raspberry Pi	CodeCatalysts	Prof. VANIS	Mr. Prasad Govindappa
11	1RI15IS026	RENUKA.K	Restaurant Billing System	LiveWire	Prof. SWETHA.K.B	Mrs. Shruthi
12	1RI15IS021	NAMITHA.V	Restaurant Billing System	LiveWire	Prof. SWETHA.K.B	Mrs. Shruthi
12	1RI15IS005	ANJALI.V	Pharmacy Management	Apex Hitech	Prof. SWETHA.K.B	Mr. V Babu
14	1RI14IS009	DIVYA B N	Event Mania	Parvam Consultech	Prof. VINOD L B	Mr. Naveen M
15	1RI14IS026	SUMA V	Pharmacy Management	Apex Hitech	Prof. VINOD L B	Mr. V Babu
16	1RI15IS003	AISHWARYA R	Pharmacy Management	Apex Hitech	Prof. VINOD L B	Mr. V Babu
17	1RI15IS004	AJAY KUMAR THAKUR	Strategic Data Parsing (Registration Validation)	Parvam Consultech	Prof. JANHAVIN L	Mr. Venkatesh
18	1RI14IS018	PANCHARAM CHAUDHARY	Strategic Data Parsing (Uploading Files in the Database)	Parvam Consultech	Prof. JANHAVIN L	Mr. Venkatesh
19	1RI15IS011	DEEPEN P	Strategic Data Parsing (File Upload & Evaluation)	Parvam Consultech	Prof. JANHAVIN L	Mr. Venkatesh

Pranisha M.
Internship Coordinator
8/2/19

[Signature]
HOD 08/02/19
HOD of Information Science Engineering,
R.R. Institute of Technology
Heerayyatta Main Road,
Chikkabanavara, Bangalore - 90



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Electronics & Communication Engineering

Internship Details

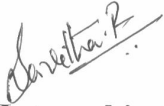
Semester: VIII CBCS

AY: 2018-19

Sl. No	USN	Name of the Student	Title of Internship	Company/ Organisation	Internal Guide	External Guide
1	IRI14EC022	Keerthana.H	Radar	HAL, Bangalore	Dr. Manjunatha M B	Mr. Swaminathan
2	IRI14EC040	Pavithra.G.N	Circuit & PCB Design using OrCAD & Communication Technology	NSTI, Bangalore	Dr. Manjunatha M B	Mrs Priya S
3	IRI14EC051	Saranya.S	Circuit & PCB Design using OrCAD & Communication Technology	NSTI, Bangalore	Dr. Sunitha H D	Mrs Priya S
4	IRI15EC004	Aishwarya K	Naval Systems	BEL, Bangalore	Dr. Sunitha H D	Mr MeenakshiSundarm
5	IRI15EC006	Ashwani L	Insulators, Ceralin & Photovoltaic systems	BHEL-EPD, Bangalore	Prof. Parimala Gandhi G	Mr Kumarswamy
6	IRI15EC007	Aishwarya B	Naval Systems	BEL, Bangalore	Prof. Parimala Gandhi G	Mr MeenakshiSundarm
7	IRI15EC008	B R Pallavi	A case study for protection of hardware board of HLC Application	BHEL-ED, Bangalore	Prof. Ravi M K	Mr. Padmanabha M
8	IRI15EC009	Bhavana S	Inplant	ITIL, Bangalore	Prof. Ravi M K	Mr. Ronny Estiberio
9	IRI15EC010	Brunda N	Insulators, Ceralin & Photovoltaic systems	BHEL-EPD, Bangalore	Prof. Anshu Deepak	Mr Kumarswamy

10	IRI15EC011	Chaitra B	Inplant	ITIL, Bangalore	Prof. Anshu Deepak	Mr. Ronny Estiberio
11	IRI15EC012	D Pramodh Punithan	Insulators, Ceralin & Photovoltaic systems	BHEL-EPD, Bangalore	Prof. Chandrakumar H S	Mr Kumarswamy
12	IRI15EC013	D Sruthi Reddy	Insulators, Ceralin & Photovoltaic systems	BHEL-EPD, Bangalore	Prof. Chandrakumar H S	Mr Kumarswamy
13	IRI15EC014	Harshitha M R	Circuit & PCB Design using OrCAD & Communication Technology	NSTI, Bangalore	Prof. Savitha R	Mrs Priya S
14	IRI15EC019	Lakshmi M S	Circuit & PCB Design using OrCAD & Communication Technology	NSTI, Bangalore	Prof. Savitha R	Mrs Priya S
15	IRI15EC023	Madhu J	Insulators, Ceralin & Photovoltaic systems	BHEL-EPD, Bangalore	Prof. Niranjan L	Mr Kumarswamy
16	IRI15EC024	Manu M	Circuit & PCB Design using OrCAD & Communication Technology	NSTI, Bangalore	Prof. Niranjan L	Mrs Priya S
17	IRI15EC025	Meghana R	Circuit & PCB Design using OrCAD & Communication Technology	NSTI, Bangalore	Prof. Suhas A R	Mrs Priya S
18	IRI15EC031	Priya B C	Circuit & PCB Design using OrCAD & Communication Technology	NSTI, Bangalore	Prof. Suhas A R	Mrs Priya S
19	IRI15EC037	Rashmi K G	Circuit & PCB Design using OrCAD & Communication Technology	NSTI, Bangalore	Prof. Sreekantha B	Mrs Priya S
20	IRI15EC039	S Shwetha Bai	Inplant	ITIL, Bangalore	Prof. Sreekantha	Mr. Ronny Estiberio
21	IRI15EC040	Sandhya B M	Serial communication in FPGA using RS 232 for protection of HLC Application	BHEL-ED, Bangalore	Prof.B N Mohan Kumar	Mr. Padmanabha M
22	IRI15EC042	Shilpa Mandal S	Insulators, Ceralin & Photovoltaic systems	BHEL-EPD, Bangalore	Prof.B N Mohan Kumar	Mr Kumarswamy

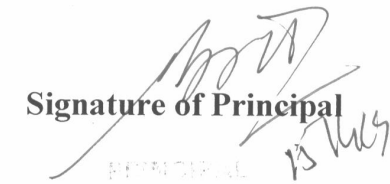
23	1RI15EC046	Surendra S P	Insulators, Ceralin & Photovoltaic systems	BHEL-EPD, Bangalore	Prof. Premsagar H	Mr Kumarswamy
24	1RI15EC047	Sushma M S	Inplant	ITIL, Bangalore	Prof. Premsagar H	Mr. Ronny Estiberio
25	1RI15EC049	Yatish S	Insulators, Ceralin & Photovoltaic systems	BHEL-EPD, Bangalore	Dr. Manjunatha M B	Mr Kumarswamy
26	1RI16EC400	Lakshmi Mache	Circuit & PCB Design using OrCAD & Communication Technology	NSTI, Bangalore	Dr. Sunitha H D	Mrs Priya S
27	1RI16EC401	Pallavi.R	Inplant	ITIL, Bangalore	Prof. Parimala Gandhi G	Mr. Ronny Estiberio



Signature of Internship Coordinator



Signature of HOD
HOD of Electronics & Communication
R.R. Institute of Technology
Hennaghatta Main Road,
Chikkabanavara, Bangalore - 56.



Signature of Principal
PRINCIPAL
R. R. INSTITUTE OF TECHNOLOGY
Chikkabanavara, Bangalore-560 90

R R INSTITUTE OF TECHNOLOGY


Chikkabanavara, Bangalore 90

Department of Mechanical Engineering

Internship Details (COMPLETED) of VIII Sem

Sl. No	USN	Name of the Students	Name of the company	Internship duration	Certificate copy received
1	IRI14ME013	BAKKESH D	AMP ENGINEERING B'LORE	13/07-15/08/18	Yes
2	IRI14ME040	MANOJ D	AMP ENGINEERING B'LORE	13/07-15/08/18	Yes
3	IRI14ME042	MANOJ M P	KALYANI MOTORS PVT LTD B'LORE	09/07-04/08/18	Yes
4	IRI14ME047	NISHANTH S	KALYANI MOTORS PVT LTD B'LORE	4 WEEKS	
5	IRI14ME053	PRANAV S	PERFECT MACHINE TOOLS, PEENYA, BANGALORE	09/07-05-08/18	Yes
6	IRI14ME077	SHARATH S	PERFECT MACHINE TOOLS, PEENYA, BANGALORE	09/07-05-08/18	Yes
7	IRI15ME005	AKHIL S KUMAR	WINSUN GLOBAL TECH, BANGALORE	4 WEEKS	
8	IRI15ME010	AMULYA S	ACE DESIGNERS BANGLORE	4 WEEKS	
9	IRI15ME013	ANANTHPRASAD JAIN B R	ACE DESIGNERS BANGLORE	4WEEKS	
10	IRI15ME024	BHARATH K	ACE DESIGNERS BANGLORE	4 WEEKS	
11	IRI15ME029	BINOD SHERPALI	K.H.T CHEVROLET BANGALORE	4 WEEKS	
12	IRI15ME031	CHANDRA KISHOR	K.H.T CHEVROLET BANGALORE	4 WEEKS	
13	IRI15ME032	CHANDRA KUMAR N	K S R T C Regional Work shop Kengeri B -LORE	12/01-31/07/2018	Yes
14	IRI15ME035	DEEPAK L S	AMP ENGINEERING B'LORE	13/07-15/08/18	Yes
15	IRI15ME040	GHANSHYAM TIWARI	K.H.T CHEVROLET BANGALORE	4 WEEKS	
16	IRI15ME042	HARSHA B S	HAL, OVERHAUL DIVISON B-LORE.	19/07-14/08/18	Yes
17	IRI15ME044	HEMANTH P R	HAL, OVERHAUL DIVISON B-LORE.	19/07-14/08/18	Yes
18	IRI15ME048	JAISHANKAR SINGH	HAL, OVERHAUL DIVISON B-LORE.	19/07-14/08/18	Yes
19	IRI15ME053	LOKESH B	K S R T C Regional Work shop Kengeri B -LORE	4 WEEKS	
20	IRI15ME054	MADHU KUMAR V	SOVEREIGN IND. LTD., BANGALORE	11/01-11/02/19	Yes
21	IRI15ME062	MILAN DHAKAL	K.H.T CHEVROLET BANGALORE	4 WEEKS	
22	IRI15ME066	NAGESH S	HAL.AIRCRAFT DIVISION,B'LORE	2 WEEKS	
23	IRI15ME068	NAVEEN R	SRI MANJUNATHA RUBBERS	07/01-02/02-19	Yes
24	IRI15ME074	PATIL SHRIKANT A	SOVEREIGN IND. LTD., BANGALORE	11/01-11/02/19	Yes
25	IRI15ME076	PINAK DAS	K..H.T CHEVROLET BANGALORE	4WEEKS	
26	IRI15ME077	PRADIP PANTHI	K.H.T CHEVROLET BANGALORE	4 WEEKS	
27	IRI15ME079	PRAKASH SINGH	K.H.T CHEVROLET BANGALORE	4 WEEKS	

					Certificate copy received
28	IRI15ME084	PRAVEEN KUMAR K	NOT AVAILABLE		
29	IRI15ME107	TEJAS G V	ADOR FRONTECH LIMITED	11/01-08/02-19	Yes
30	IRI15ME110	VEIPUNII JOHNNY R H	K.H.T CHEVROLET BANGALORE	4 WEEKS	
31	IRI15ME111	VIGNESH P	PERFECT MACHINE TOOLS, PEENYA, BANGALORE	09/07-05-08/18	Yes
32	IRI15ME113	VINAY B	ADOR FRONTECH LIMITED	11/01-08/02-19	Yes
33	IRI15ME115	VISHNU V S	ADOR FRONTECH LIMITED	11/01-08/02-19	Yes
34	IRI16ME400	AMIT NANDOOR	A.M. P ENGINEERING, BANGALORE	11/01-11/02-19	Yes
35	IRI16ME406	CHANDAN S	A.M. P ENGINEERING, BANGALORE	11/01-11/02-19	Yes
36	IRI16ME407	DHARSHAN K V	ACE DESIGNERS PVT. LTD., BANGALORE	09/01-09/02/19	Yes
37	IRI16ME409	DHANUSH G	HAL, OVERHAUL DIVISON B-LORE.	19/07-14/08/18	Yes
38	IRI16ME411	GAGAN JAIRAM	ACE DESIGNERS PVT. LTD., BANGALORE	09/01-09/02/19	Yes
39	IRI16ME414	GURUMURTHY S	ACE DESIGNERS PVT. LTD., BANGALORE	09/01-09/02/19	Yes
40	IRI16ME417	KISHORE KUMAR G	ADOR FRONTECH LIMITED	11/01-08/02-19	Yes
41	IRI16ME418	MAHESH B HUKKERI	JAMAKHANDI SUGAR PVT. LTD.	10/07-14/08-18	Yes
42	IRI16ME420	MEGHASHREE B J	ACE DESIGNERS PVT. LTD., BANGALORE	11/07-11/08/18	Yes
43	IRI16ME422	NIKHIL L M	BMTC SHANTINAGAR, BANGALORE	4 WEEKS	
44	IRI16ME423	RAJESH N	ACE DESIGNERS PVT. LTD., BANGALORE	09/01-09/02/19	Yes
45	IRI16ME424	RAKSHITH L	HAL, OVERHAUL DIVISON B-LORE.	19/07-14/08/18	Yes
46	IRI16ME425	SAGAR M S	KALYANI MOTORS PVT LTD B'LORE	09/07-04-08/18	Yes
47	IRI16ME426	SANTHOSH G V	SHRI MANJUNATHA RUBBERS, BANGALORE	4WEEKS	
48	IRI16ME427	SHASHIDHAR M	NOT AVAILABLE		
49	IRI16ME429	TEJAS KUMAR S	KALYANI MOTORS PVT LTD B'LORE	09/07-04-08/18	Yes
50	IRI16ME432	YATHISH K J	KALYANI MOTORS PVT LTD B'LORE	4WEEKS	
51	IRI16ME433	YOGAPRASAAD	SHRI MANJUNATHA RUBBERS, BANGALORE	4WEEKS	
52	IRI15ME122	AJEESH PRASAD S	WINSUN GLOBAL TECH, BANGALORE	4WEEKS	
53	IRI15ME123	AKHIL RAJ	WINSUN GLOBAL TECH, BANGALORE	4WEEKS	
54	IRI15ME124	CHITU S KURUP	WINSUN GLOBAL TECH, BANGALORE	4WEEKS	
55	IRI15ME125	G GOKUL	WINSUN GLOBAL TECH, BANGALORE	4WEEKS	
56	IRI15ME126	KANNAN SURESH	WINSUN GLOBAL TECH, BANGALORE	4WEEKS	


 Signature of the HOD



PKM Educational Trust

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Computer science & Engineering

Internship Student details for academic year 2018-2019

Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant
Online shoe marketing	4NGLE Software Consultancy Pvt.Ltd	10/7/2018 to 6/8/2018	Shwetha M
Customer Relationship Management	4NGLE Software Consultancy Pvt.Ltd	10/07/2018 to 06/08/2018	Rohith E C. Divya S. Akhila P K. Ankita Shukla
Mini Scientific calculator	LIVEWARE	09/07/2018 to 04/08/2018	Irfan pasha
Programming using Python	LIVEWARE		Sathish P
Minesweeper Game	LIVEWARE	09/07/2018 to 04/08/2018	Hari Kireeti B K
Event Queue	Parvam Consultancy .Tech	4 Weeks	Nayana H V
Basic Elements of android application Development	Seamovation labs private limited	09/07/2018 to 09/08/2018	Vasuki E M
Web Development	Infidata Technolonologies	10/07/2018 to 10/08/2018	Raisa Kauser
Network Automation	Reliance Jio Infocomm Limited	09/07/2018 to 06/08/2018	Soundarya V R
Mini Scientific Calculator	Livewire		Kavya R
Programming using Python	Livewire	09/07/2018 to 04/08/2018	Nikhil B K
Online Test Management Tool	Bharat Electronics Limitef Bangalore	09/07/2018 to 07/08/2018	Ashwini Shridhar DE
Animated clock and hour Glass loader	Bharat Electronics Limited(BEL)	11/07/2018 to 09/08/2018	Indu B

Customer Relationship Management Notice Model	Parvam Consultancy Tech	07/01/2019 to 07/02/2019	Munshad Ali
Data Collector	Effone Technologies	09/07/2018 to 03/08/2018	Shiva Selvi
Online Book Store	4NGLE Software Consultancy Pvt.Ltd	10/07/2018 to 06/08/2018	Yojana Aryal
Animated Clock and hour Glass loader	Bharat Electronics Limited(BEL)	11/07/2018 to 09/08/2018	Vibha Reddy K B
Movie Booking	Livewire	09/07/2018 to 4/8/2018	Prakash Rayamajhi
Event Management	Livewire	09/07/2018 to 04/08/2018	Amit Kumar
Gallery Application	Seamovations Labs pvt ILD	09/07/2018 to 09/08/2018	Bhimavva P
Simovation Labs pvt ltd	Calender aaplication	09/07/2018 to 09/08/2018	Prerana D
Workflow automation similar to IFTTT	TATA Elxsi	09/07/2018 to 06/08/2018	Hemalatha C
Car Sales System	Livewire	09/07/2018 to 04/08/2018	Rupesh Timalina, Biwas Subedi, Raghav Kattel, Archan Bhatta
Financial Calculator Android App	Seamovations Labs pvt ILD	09/07/2018 to 09/8/2018	Prathibha Mallappa AI
Programing using Python	Livewire		Varun Bharadwaj
Web Development	4NGLE Software Consultancy Pvt.Ltd	10/07/2018 to 06/08/2018	Tanaya Patra, smriti Ghimire
Adroid	Livewire	09/07/2018 to 04/08/2018	Drawpada Sharma
Mini Scientific Calculator	Livewire	09/07/2018 to 4/8/2018	Vinutha H
Python	Livewire	09/07/2018 to 04/08/2018	Salim M Gumbo
Animated Clock and Hourglass Loader	Bharat Electronics Limited(BEL)	11/07/2018 to 09/08/2018	V Joel
Snake game using Tkinter	Livewire Bangalore	09/07/2018 to 04/08/2018	Nagaraj T
SVG Animation	Bharat Electronics Limited(BEL)	11/07/2018 to 09/08/2018	Sownya M.V
Random password generator	Livewire Bangalore	09/07/2018 to 04/08/2018	Gayathri.I.L.D
Event Queue	Parvam consult tech	09/07/2018 to 04/08/2018	Mary Ropini
Customer Relationship Management	4NGLE Software Consultancy Pvt.Ltd	10/07/2018 to 06/08/2018	Rahul M

Customer Relationship Management	Parvam consult-tech	07/01/2019 to 07/02/2019	Krishna RajBanshi
Customer Relationship Management	Parvam consult-tech	07/01/2019 to 07/02/2019	Rajat Gangwani
Minesweeper game	Livewire Bangalore	09/07/2018 to 04/08/2018	Bindu S
Online shoe marketing	4NGLE Software Consultancy Pvt.Ltd	10/07/2018 to 06/08/2018	Richa Kumari
Programming using python	Livewire Bangalore	09/07/2018 to 04/08/2018	Shreekanth
Kloh event management application	Kloh-internet pvt ltd	01/07/2018 to 31/08/2018	Milan shrestha
Customer Relationship Management	Parvam consult-tech	07/01/2019 to 07/02/2019	Julius Dainary
Timer	Livewire Bangalore	09/07/2018 to 04/08/2018	Srikanth B.R
Minesweeper game	Livewire Bangalore	09/07/2018 to 04/08/2018	Monika P.V
Dine-N-Wine	Infidata technologies	10/07/2018 to 10/08/2018	Maheen Sedra
Random password generator	Livewire Bangalore	09/07/2018 to 04/08/2018	Baba Bharat
Snake game using Tkinter	Livewire Bangalore	09/07/2018 to 04/08/2018	Dipendra mahato
Event Queue	Parvam consult tech	09/07/2018 to 04/08/2018	Chandana M.S

[Handwritten Signature]
25/05/19

HOD Signature

Head of Department

Department of Computer Science & Engg
R.R. Institute of Technology
Hesaraghatta Main Road,
Chikkabanavara, Bangalore



P K M Educational Trust ®

R.R. INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi | Approved by AICTE, New Delhi & Government of Karnataka)

Department of Electrical and Electronics Engineering

Student's Internship status

The Internship / Professional Practice (15EE84) status as on 22.10.2018 is as follows

Sl. No.	USN	Name	Guide	Place & Date	Topic	Remark
1	1RI15EE001	Arpitha S	Prof. Sowmya G J	KAVIKA, Bangalore 09.07.2018 to 08.08.2018	A study of manufacturing and testing of distribution transformer	Internship completed. Draft copy of report given to guide
2	1RI15EE002	Babugouda R J	Prof. Anusha D Y	HESCOM, Hubli 20.07.2018 to 03.08.2018	HESCOM – technical operation and maintenance, official management overview	2 weeks remaining. Will be completed in vacation after VII semester exams
3	1RI15EE006	Rakshitha G N	Prof. Sunanda C V	KAVIKA, Bangalore 09.07.2018 to 08.08.2018	A study of manufacturing and testing of distribution transformer	Internship completed. Draft copy of report given to guide
4	1RI15EE007	B M Vannesh	Prof. Girish Kumar B A	Electrohm, Bangalore 20.07.2018 to 03.08.2018	Manufacturing, testing and quality check of instrumentation transformers and sensors	2 weeks remaining. Will be completed in vacation after VII semester exams
5	1RI16EE407	M.D.Shamim Khan	Prof. R Navaneetha Krishna	-	-	Will be completed in vacation after VII semester exams

Hesaraghatta
HOD OF ELECTRICAL & ELECTRONICS ENGG
R.R. Institute of Technology
Hesaraghatta Main Road
Chikkabanavara, Bangalore-90
23/10/2018

[Signature]
PRINCIPAL
R.R. INSTITUTE OF TECHNOLOGY
Chikkabanavara, Bangalore - 560 090.

R. Navaneetha Krishna
R Navaneetha Krishna 22/10/18
Internship Coordinator

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi, Karnataka – 590018



INTERNSHIP REPORT ON

PYTHON AND MACHINE LEARNING

Submitted on partial fulfilment of academic requirement of Final year

BACHELOR OF ENGINEERING **in** **COMPUTER SCIENCE AND ENGINEERING**

SUBMITTED BY:

NANDITA BANIK
(1RI20CS401)

Under the guidance of

Internal Guide

Ms. SOWMYA N

Assistant Prof., Dept. of CSE, RRIT

External Guide

Mr. SUNIL KUMAR S

Karunadu Technologies Pvt. Ltd.



Department of Computer Science and Engineering

R.R. Institute of Technology
Bangalore, Karnataka, India-560090
2022-23

R R INSTITUTE OF TECHNOLOGY

CHIKKABANAVARA, BENGALURU - 560090

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING



CERTIFICATE

This is to certify that internship entitled **"PYTHON AND MACHINE LEARNING"** is a bonafide work carried out by **NANDITA BANIK** bearing 1R120CS401 in partial fulfillment for the award of degree in Bachelor of Engineering in Computer Science Engineering from Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report submitted in the department Library. This internship report code (18CS185) has been approved as it satisfies the academic requirements in respect of mini project report prescribed for award of said degree.

[Handwritten Signature]

Signature of Internal Guide

Ms. Sowmya N

Assistant Professor

Dept. of CSE, RRIT

[Handwritten Signature]

Signature of HOD

Head of Department
Department of Computer Science & Engg
R.R. Institute of Technology
Hosur Road, Main Road
Chikkabannavara, Bangalore

Dept. of CSE, RRIT

[Handwritten Signature]

Signature of Principal

PRINCIPAL
Dr. Mahendra K. V
R.R. INSTITUTE OF TECHNOLOGY
Chikkabannavara, Bangalore - 560 090

RRIT, Bangalore

Name of the Examiners

1.....

2.....

Signature with Date

1.....

2.....



ಕರುನಾಡು ಟೆಕ್ನಾಲಜೀಸ್ ಪ್ರೈವೇಟ್ ಲಿಮಿಟೆಡ್

KARUNADU TECHNOLOGIES PRIVATE LIMITED

*Certificate
of Completion*

**INTERNSHIP PROGRAM
ON
Python and Machine Learning**



1R120CS401

THIS IS TO CERTIFY THAT

MR/Ms. **NANDITA BANIK**

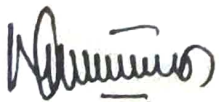
FROM COLLEGE RR INSTITUTE OF TECHNOLOGY

HAS COMPLETED ONE MONTH INTERNSHIP PROGRAM ON

PYTHON AND MACHINE LEARNING

CONDUCTED FROM 01-SEP-2022 TO 30-SEP-2022 AT

KARUNADU TECHNOLOGIES PVT. LTD.



Mahesh Dugginal
MD & CEO

Karunadu Technologies Pvt. Ltd.





Mahesh Dugginal
GUIDE

Karunadu Technologies Pvt. Ltd.

E-mail : karunadutechnologies@gmail.com

www.karunadutechnologies.com

TechnoFly Solutions

TechnoFly

Internship Certificate

This is to certify that MEGHANA . R a student of RR

Institute of Technology has completed 1 months/weeks of Internship

From 29-08-2022 To 29-09-2022 in Python with Machine Learning Domain.

We wish you all the best in your future endeavors.

Date: 29-09-2022

For TechnoFly Solutions



TechnoFly Solutions, Bangalore 40
Mob: 9448144444, 9448144444 | www.technofly.in

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI -590018



An Internship Report on

**“ BASICS OF PLC AND SCADA ” AND “ INTRODUCTION
TO JAVA AND ITS APPLICATIONS ”**

**SUBMITTED IN THE PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF
BACHELOR OF ENGINEERING**

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

Ms. HARSHITHA V S

USN: 1RI16EE006

Internship carried out at

GOVERNMENT TOOL ROOM AND TRAINING CENTRE

Rajajinagar Industrial Estate, Bangalore-560 010

Internal Guide

Dr. Sunitha H D

Prof. And Head Dept. of EEE

RRIT, Bangalore



External Guide

Mr. Anil Gowda

GTTC

Bangalore

Department of Electrical and Electronics Engineering

R R Institute of Technology

Affiliated to VTU Belgaum and approved by AICTE ,New Delhi,Recognised by Govt. of Karnataka

Accredited by NAAC with B+

Raja Reddy Layout ,Chikkabanavara,Bengaluru – 560 020

2021-2022

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI -590018**



**An Internship Report on
“ BASICS OF PLC AND SCADA ” AND “ INTRODUCTION
TO JAVA AND ITS APPLICATIONS ”**

**SUBMITTED IN THE PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF
BACHELOR OF ENGINEERING**

**IN
ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted By

Mr. BHARATH KL

USN: 1RI16EE004

Internship carried out at

GOVERNMENT TOOL ROOM AND TRAINING CENTRE

Rajajinagar Industrial Estate, Bengaluru-560 010

Internal Guide

**Dr . Sunitha HD
HOD Dept. of EEE
RRIT , Bengaluru**



External Guide

**Mr. Deepak kumar
GTTC
Bengaluru**

Department of Electrical and Electronics Engineering

R R Institute of Technology

Affiliated to VTU Belgaum and approved by AICTE ,New Delhi, Recognised by Govt. of Karnataka

Accredited by NAAC with B+

Raja Reddy Layout , Chikkabanavara , Bengaluru – 560 090

2021-2022

SIEMENS

Ingenuity for Life



Certificate of Completion

siemens.co.in

This is to certify that **BHARATH KL**
bearing number **KA/BLR/4001/09-2021/0088** has successfully
completed Course

Basics of PLC (50 Hrs)

Conducted at

Siemens Centre of Excellence, GTTC, Bengaluru

ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ, ಬೆಂಗಳೂರು

from **15/09/2021** to **24/09/2021**

Authorized Signatory:

Siemens Industry Software Pvt. Ltd

Authorized Signatory:

Government Tool Room & Training Centre

Authorized Signatory:

DesignTech Systems Limited

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI -590018**



An Internship Report on

**“ BASICS OF PLC AND SCADA ” AND “ INTRODUCTION
TO JAVA AND ITS APPLICATIONS ”**

SUBMITTED IN THE PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF

BACHELOR OF ENGINEERING

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

Mr. PRARTHAN S B

USN: 1RI16EE012

Internship carried out at

GOVERNMENT TOOL ROOM AND TRAINING CENTRE

Rajajinagar Industrial Estate, Bengaluru-560 010

Internal Guide

**Dr . sunitha HD
HOD Dept. of EEE
RRIT , Bengaluru**



External Guide

**Mr. Deepak kumar
GTTC
Bengaluru**

Department of Electrical and Electronics Engineering

R R Institute of Technology

Affiliated to VTU Belgaum and approved by AICTE ,New Delhi, Recognised by Govt. of Karnataka

Accredited by NAAC with B+

Raja Reddy Layout , Chikkabanavara , Bengaluru – 560 090

2021-2022



This is to certify that **PRARTHAN S BANNANJE**
bearing number **KA/BLR/4001/09-2021/0087** has successfully
completed Course

Basics of PLC (50 Hrs)

Conducted at

Siemens Centre of Excellence, GTTC, Bengaluru
ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ, ಬೆಂಗಳೂರು

from **15/09/2021** to **24/09/2021**

Authorized Signatory:

Siemens Industry Software Pvt. Ltd

Authorized Signatory:

Government Tool Room & Training Centre

Authorized Signatory:

DesignTech Systems Limited



This is to certify that **VARUN K**
bearing number **KA/BLR/4001/09-2021/0091** has successfully
completed Course

Basics of PLC (50 Hrs)

Conducted at

Siemens Centre of Excellence, GTTC, Bengaluru

ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ, ಬೆಂಗಳೂರು

from **15/09/2021** to **24/09/2021**

Authorized Signatory:

Siemens Industry Software Pvt. Ltd

Authorized Signatory:

Government Tool Room & Training Centre

Authorized Signatory:

DesignTech Systems Limited



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090


Department of Mechanical Engineering

2021-22 Batch

Sl.No	Batch	Activity	Implementation period	Status	Remarks	Points	Faculty Allotted
1	2021-22	1. Tourism promotion innovative approaches <ul style="list-style-type: none">Email promotionOnline advertising	4 th Semester	On going		20	Prof. LohithKumar J Komdapura
		2. Promotion of appropriate technology <ul style="list-style-type: none">Advertising	5 th semester			20	Prof. Murali
		3. Reduction in energy consumption <ul style="list-style-type: none">Auditing the energy consumptionReducing the excess/unwanted usage	6 th semester			20	Prof. K Bharath
		4. Facilitating 100% digitized money transaction: Awareness on digital India Program	7 th semester			20	Prof. Deepak
		5. Spreading public awareness under rural outreach programs Awareness camp in rural area for govt. programs (Sukanya Samridhi Yojana and PM Suraksha Bima Yojana)	8 th Semester			20	Prof. Srinivas K R


Co-Ordinator's Signature

Mr. Srinivas K R


HOD Signature

HOD of Mechanical Engineering
R.R. Institute of Technology
Besaraghatta Main Road,
Chikkabanavara, Bangalore - 90



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Civil Engineering

AICTE ACTIVITY POINTS – 8th SEM 2021-22

- Activity 1 (A-1) - Promotion of appropriate technology
- Activity 2 (A-2) - Tourism promotion innovative approaches
- Activity 3 (A-3) - Developing and managing efficient garbage disposal system

Note : Each activity carries 25 points

Sl no	USN	Name	A- 1	A- 2	A- 3
1	1RI15CV004	AKASH C	25	25	25
2	1RI6CV001	AISWARYA CS	25	25	25
3	1RI6CV011	BASAVAN GOWDA	25		25
4	1RI6CV038	PASBHALANG THABAH	25	25	25
5	1RI6CV041	PREMCHANDRA NAIDU	- NOT	ELIGIBLE -	
6	1RI6CV062	SHANIAHLANG LYNGDOH	25	25	25
7	1RI17CV023	MANOJ GOWDA H K	25	25	25
8	1RI17CV026	M D IMRAN ANSARI	25	25	25
9	1RI17CV034	PAON THANGJAM	25	25	25
10	1RI17CV044	SANGIT PANDIT	25	25	25
4	1RI17CV051	SUSHEEL KUMAR	25	25	25
12	1RI17CV055	YASHAS S N	25	25	25
13	1RI18CV001	AKHILESH KUMAR YADAV	25	25	25
14	1RI18CV003	ANUPAMA R RAIKAR	25	25	25
15	1RI18CV006	BAIJU PRASAD GUPTA	25	25	25
16	1RI18CV007	BIKESH BHATTARAI	25	25	25
17	1RI18CV008	BIKRAM PRASAD SAH	25	25	25
18	1RI18CV009	CHANDRABHUSHAN MAHATO	25	25	25



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Civil Engineering


42	1RI18CV040	SHYAM DEV YADAV	25	25	25
43	1RI18CV041	SINCHANA M	25	25	25
44	1RI18CV042	SREEHARI P P	25	25	25
45	1RI18CV045	VINITH G	25	25	25
46	1RI19CV400	ARAVIND GOWDA A	25	25	25
47	1RI19CV401	ASHMITA DAS	25	25	25
48	1RI19CV402	BEDANTA DOWARAH	25	25	25
49	1RI19CV403	DIVYA H	25	25	25
50	1RI19CV404	MOHAMMED AKTHAR S A	25	25	25
51	1RI19CV405	PINAK PANI HAZARIKA	25		25
52	1RI19CV406	SHASHI PREETHAM N	25	25	25
53	1RI19CV407	SUMEHI YMBON	25	25	25
54	1RI19CV408	ZAID HASSAN	25	25	25

Activity 1 (A-1) - Promotion of appropriate technology- Gunasheela P 


(Activity 1 coordinator)

Activity 2 (A-2) - Tourism promotion innovative approaches –Aishwarya V Kakade 

(Activity 2 coordinator)

Activity 3 (A-3) - Developing and managing efficient garbage disposal system –Girish G 

(Activity 2 coordinator)


Signature of coordinator
Gunasheela P


HOD
Dr. G sankara



Since 1993

PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Civil Engineering

19	1RI18CV010	DEEPAK THAKUR	25	25	25
20	1RI18CV012	DHARMENDRA KUMAR SAH	25	25	25
21	1RI18CV013	DHIRAJ KUMAR SAH	25	25	25
22	1RI18CV014	DHIRAJ SHAH	25	25	25
23	1RI18CV015	DURGESH BATALA	25	25	25
24	1RI18CV017	EVAN RAJ SUBBA	25	25	25
25	1RI18CV019	JAVED OSTA	25		25
26	1RI18CV020	JAYANDRA RAWAL	25	25	25
27	1RI18CV021	JOHNSWELL SYIEM	25	25	25
28	1RI18CV022	JOSHAN ACHARYA	25	25	25
29	1RI18CV024	KHUSHUBU CHAUDHARI	25	25	25
30	1RI18CV027	MUKESH KUMAR	25	25	25
31	1RI18CV028	PANKAJ KANOJIYA	25	25	25
32	1RI18CV029	PANKAJ YADAV	25	25	25
33	1RI18CV030	PRAMIKA A	25	25	25
34	1RI18CV031	PRAMOD KUMAR MAHATO	25	25	25
35	1RI18CV032	RAMANDIP KUMAR MAHATO	25	25	25
36	1RI18CV034	RISHU KUMAR CHAURASIYA	25	25	25
37	1RI18CV035	SACHENDRA KUMAR YADAV	25	25	25
38	1RI18CV036	SAILESH SAHANI	25	25	25
39	1RI18CV037	SANDEEP KUMAR YADAV	25	25	25
40	1RI18CV038	SANJAY KUMAR SAH	25	25	25
41	1RI18CV039	SANTOSH KUMAR YADAV	25	25	25



PKM Educational Trust ®

R. R. Institute of Technology


Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,
Accredited by NAAC with 'B+'

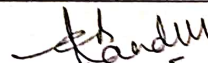
Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Mechanical Engineering

AICTE ACTIVITY PLAN FOR BATCH 2020-21

Sl.No	Batch	Activity	Implementation period	Status	Remarks	Points	Faculty Allotted
1	2020-21	1. Spreading public awareness under rural outreach programs <ul style="list-style-type: none">Awareness camp in rural area for govt. programs (Sukanya Samridhi Yojana and PM Suraksha Bima Yojana)	Before 4 th sem	Completed	Hard copy Submitted	20	Prof. Srinivas K R
		2. Facilitating 100% digitized money transaction <ul style="list-style-type: none">Awareness on digital India Program	5 th sem	Completed	Hard copy Submitted	20	Prof. Deepak
		3. Tourism promotion innovative approaches <ul style="list-style-type: none">Email promotionOnline advertising	6 th semester	On going		20	Prof. LohithKumar J Komdapura
		4. Promotion of appropriate technology <ul style="list-style-type: none">Advertising	7 th semester			20	Prof. Murali
		5. Reduction in energy consumption <ul style="list-style-type: none">Auditing the energy consumptionReducing the excess/unwanted usage	8 th Semester			20	Prof. K Bharath


Co-Ordinator's Signature


HOD Signature
HOD of Mechanical Engineering
R.R. Institute of Technology
Hesaraghatta Main Road,
Chikkabanavara, Bangalore - 90



Since 1993

PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,
Accredited by NAAC with 'B+'


Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Mechanical Engineering

AICTE ACTIVITY PLAN FOR BATCH 2019-20

Sl.No	Batch	Activity	Implementation period	Status	Remarks	Points	Faculty Allotted
1	2019-20	1. Reduction in energy consumption <ul style="list-style-type: none">Auditing the energy consumptionReducing the excess/unwanted usage	4 th semester	Completed	Hard copy Submitted	20	Prof. K Bharath
		2. Tourism promotion innovative approaches <ul style="list-style-type: none">Email promotionOnline advertising	Before 6 th Sem	Completed	Hard copy Submitted	20	Prof. LohithKumar J Komdapura
		3. Facilitating 100% digitized money transaction <ul style="list-style-type: none">Awareness on digital India Program	Before 7 th sem	Completed	Hard copy Submitted	20	Prof. Deepak
		4. Promotion of appropriate technology <ul style="list-style-type: none">Advertising	Before 8 th sem	Completed		20	Prof. Murali


Co-Ordinator's Signature


HOD Signature
HOD of Mechanical Engineering
R.R. Institute of Technology
Hesaraghatta Main Road,
Chikkabanavara, Bangalore - 90

R R INSTITUTE OF TECHNOLOGY

CHIKKABANAVARA, BENGALURU - 560090

DEPARTMENT OF INFORMATION SCIENCE ENGINEERING



CERTIFICATE

This is to certify that the report entitled **"TOURISM PROMOTIONS INNOVATIVE APPROACHES"** is an AICTE Activity carried out by **NITIN PRIYADRASHI** bearing USN: **1RI20IS030** in partial fulfillment for the award of degree in Bachelor of Engineering in Information Science Engineering from Visvesvaraya Technological University, Belagavi during the academic year 2022-23.

J. Sowmya

Signature of Guide

[Prof. Sowmya J]

Assistant Professor

Dept. of ISE, RRIT

[Signature]

Signature of HOD

HOD of Information Science Engineering

R.R. Institute of Technology

Hesarghatta Main Road
Chikkabanasavara, Bangalore

Dept. of ISE, RRIT

[Signature]

Signature of Principal

[Dr. Mahendra K V]

PRINCIPAL

R.R. INSTITUTE OF TECHNOLOGY
Chikkabanasavara, Bangalore - 560 090
RRIT, Bangalore

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI- 560018**



AICTE Activity Report on

“PROMOTION OF APPROPRIATE TECHNOLOGIES”

**Submitted to
CSE Department**

In partial fulfillment of the requirement for the award of degree of

**BACHELOR OF ENGINEERING
in
COMPUTER SCIENCE ENGINEERING
by**

**RITIKKUMAR C
SHETTY
(1R120CS040)**

Under the supervision of

**PROF. LASHMIDEVI H
Asst. Professor, Dept of CSE**



**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING,
R R INSTITUTE OF TECHNOLOGY,
BENGALURU-560090**

2022-2023



CERTIFICATE

Certified that the AICTE activity entitled “**PROMOTION OF APPROPRIATE TECHNOLOGIES**” is a bonafied work carried out by **RITIKKUMAR C SHETTY (1R120CS040)** respectively in partial fulfillment for the award of degree of **Bachelor of Engineering in Computer Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2022-2023. The Activity report has been approved as it satisfies the academic requirements in aspect of AICTE activity prescribed for Bachelor of Engineering degree.

Signature of Internal Guide

[Prof. Lakshmidhevi H]

Asst. Professor

Dept. of CSE, RRIT

Signature of HOD

[Dr. Manjunath R]

**Department of Computer Science
R.R. Institute of Technology
Hesaraghatta Main Road
Chikkabanavara, Bangalore**

Signature of Principal

R.R. INSTITUTE OF TECHNOLOGY
Dr. Mahendra K. V
Chikkabanavara, Bangalore - 560 090.
Principal

RRIT, Bangalore

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI**



**AICTE Activity Report
on**

“PROMOTION OF APPROPRIATE TECHNOLOGIES”

Submitted to

CSE Department

In partial fulfilment of the requirement for the award of degree of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE ENGINEERING

By

SUNIL R

(1RI20CS053)

Under the supervision of

Asst Prof. REVATHI.B

Professor, CSE Department



**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING,
R R INSTITUTE OF TECHNOLOGY, BENGALURU-560090**

2022-2023

VISVESVARAYA TECHNOLOGICAL UNIVERSITY



CERTIFICATE

Certified that the AICTE activity entitled “**PROMOTION OF APPROPRIATE TECHNOLOGIES**” is a bonafied work carried out by **SUNIL R (1R120CS053)** respectively in partial fulfillment for the award of degree of **Bachelor of Engineering in Computer Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2022-2023. The Activity report has been approved as it satisfies the academic requirements in aspect of AICTE activity prescribed for Bachelor of Engineering degree.

Revathi B
22/6/23

Signature of Internal Guide

[Asst Prof. REVATHI.B]

Assistant Professor

Dept. of CSE, RRIT

[Signature]

Signature of HOD

Head of Department
Department of Computer Science
[Dr. MANJUNATH.R]
R.R. Institute of Techno
Hosur and Main Road
Chikkabanevara, Bangalore

Dept. of CSE, RRIT

Mahendra K.V
22/6/23

Signature of Principal

[Dr. Mahendra.K.V]

Principal
PRINCIPAL

R.R. INSTITUTE OF TECHNOLOGY
RRIT, Bangalore
Chikkabanevara, Bangalore - 560 090

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belagavi-590018



AICTE ACTIVITY REPORT

ON

“PROMOTION OF APPROPRIATE TECHNOLOGY”

Submitted in the partial fulfilment of the requirements for the Award of

BACHELOR OF ENGINEERING

IN

INFORMATION SCIENCE & ENGINEERING

Submitted By

NAYANA S (IRI17IS016)

Under the Guidance of

Dr. Naveen M

Assisstant Professor, Dept. of ISE, RRIT



Department of Information Science and Engineering

R. R. Institute of Technology

**Affiliated to VTU Belgaum & Approved by AICTE, New Delhi,
Recognized by Govt. of Karnataka, Accredited by NAAC with 'B+'**

Chikkabanavara, Bengaluru – 560090

2021-22

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka,

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Information Science and Engineering



CERTIFICATE

This is to certify that the AICTE project entitled “PROMOTION OF APPROPRIATE TECHNOLOGY” carried out by **NAYANA S** bearing **USN: 1RI17IS016**, a bonafide student of R R Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in **Information Science & Engineering** of the Visvesvaraya Technological University, Belagavi during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the AICTE Activity submitted in the departmental library. The AICTE Report has been approved as it satisfies the academic requirements in respect of AICTE work prescribed for the said degree.

Signature of Guide

Dr. Naveen M
Assistant Professor
Dept. of ISE, RRIT

Signature of HOD

Dr. Erappa G
Professor and Head
Dept. of ISE, RRIT
Hesarghatta Main Road,
Chikkabanavara, Bangalore - 90.

Signature of Principal
Dr. Mahendra K.V
Principal,
RRIT, Bangalore

External Viva

Name of the Examiners

1.

2.

Signature with date

.....

.....

**VISVESVARAYA TECHNOLOGICAL
UNIVERSITY**

Jnana Sangama, Belagavi – 590018



**AICTE ACTIVITY REPORT
FOOD PRESERVATIVES
2021-2022**

on

“FOOD PACKING AND STORAGE”

Submitted by

MOHAMMED BASIM K(1RI18IS023)



**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING
R R INSTITUTE OF TECHNOLOGY**

**(ACCREDITED BY NAAC B+)
CHIKKABANAVARA, BENGALURU-560090**

2021-2022

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2018 – 19 Outcome Based Education(OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

I SEMESTER B.E./B.Tech (PHYSICS GROUP)													
Sl. No	Course and Course Code		Course Title	Teaching Department	Paper Setting Board	Teaching Hours /Week			Examination				Credits
						Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BSC	18MAT11	Calculus and Linear Algebra	Mathematics	Maths	3	2	--	03	40	60	100	4
2	BSC	18PHY12	Engineering Physics	Physics	Physics	3	2	--	03	40	60	100	4
3	ESC	18ELE13	Basic Electrical Engineering	E and E Engineering	E and E Engineering	2	2	--	03	40	60	100	3
4	ESC	18CIV14	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	2	2	--	03	40	60	100	3
5	ESC	18EGDL15	Engineering Graphics	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	2	--	2	03	40	60	100	3
6	BSC	18PHYL16	Engineering Physics Laboratory	Physics	Physics	--	--	2	03	40	60	100	1
7	ESC	18ELEL17	Basic Electrical Engineering Laboratory	E and E Engineering	E and E Engineering	--	--	2	03	40	60	100	1
8	HSMC	18EGH18	Technical English-I	Humanities	Humanities	--	2	--	03	40	60	100	1
TOTAL						12	10	06	24	320	480	800	20
Note: BSC: Basic Science Courses, ESC: Engineering Science Courses, HSMC: Humanity, Social Science and Management Courses.													
Definition of Credit:		1 hour Lecture (L) per week per semester =1 Credit 2 hour Tutorial (T) per week per semester =1 Credit 2 hour Practical/Laboratory/Drawing (P) per week per semester =1 Credit.											

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2018 – 19 Outcome Based Education(OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

II SEMESTER B.E./B.Tech (CHEMISTRY GROUP)													
Sl. No	Course and Course Code		Course Title	Teaching Department	Paper Setting Board	Teaching Hours /Week			Examination				Credits
						Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
						L	T	P					
1	BSC	18MAT21	Advanced Calculus and Numerical Methods	Mathematics	Maths	3	2	--	03	40	60	100	4
2	BSC	18CHE22	Engineering Chemistry	Chemistry	Chemistry	3	2	--	03	40	60	100	4
3	ESC	18CPS23	C Programming for Problem Solving	Computer Science and Engineering	Computer Science and Engineering	2	2	--	03	40	60	100	3
4	ESC	18ELN24	Basic Electronics	ECE/E and I/ TC	E and C Engineering	2	2	--	03	40	60	100	3
5	ESC	18ME25	Elements of Mechanical Engineering	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	2	2	--	03	40	60	100	3
6	BSC	18CHEL26	Engineering Chemistry Laboratory	Chemistry	Chemistry	--	--	2	03	40	60	100	1
7	ESC	18CPL27	C Programming Laboratory	Computer Science and Engineering	Computer Science and Engineering	--	--	2	03	40	60	100	1
8	HSMC	18EGH28	Technical English – II	Humanities	Humanities	--	2	--	03	40	60	100	1
TOTAL						12	12	04	24	320	480	800	20
Note: BSC: Basic Science Courses, ESC: Engineering Science Courses, HSMC: Humanity, Social Science and Management Courses.													
Definition of Credit:		1 hour Lecture (L) per week per semester =1 Credit 2 hour Tutorial (T) per week per semester =1 Credit 2 hour Practical/Laboratory/Drawing (P) per week per semester =1 Credit.											

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)
(Effective from the academic year 2018 – 19)

III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT31	Transform Calculus, Fourier Series And Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CS32	Data Structures and Applications	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS33	Analog and Digital Electronics	CS / IS	3	0	--	03	40	60	100	3
4	PCC	18CS34	Computer Organization	CS / IS	3	0	--	03	40	60	100	3
5	PCC	18CS35	Software Engineering	CS / IS	3	0	--	03	40	60	100	3
6	PCC	18CS36	Discrete Mathematical Structures	CS / IS	3	0	--	03	40	60	100	3
7	PCC	18CSL37	Analog and Digital Electronics Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL38	Data Structures Laboratory	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39	Aadalitha Kannada (Kannada for Administration)									
		OR	OR									
		18CPC39	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
TOTAL					17	08	04	24	420	480	900	24
					OR	OR	04	OR	OR	OR		
					18	10		26	360	540		

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course

18KVK39 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and **18KAK39** Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

Sl. No	Course Code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits	
10	NCMC	18MATDIP31	Additional Mathematics - I	Mathematics	02	01	--	03	40	60	100	0

(a) The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B.Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/ fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE Activity Points to be earned by students admitted to BE/B.Tech/B. Plan day college programme (For more details refer to Chapter 6, AICTE Activity Point Programme, Model Internship Guidelines): Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours' requirement should be fulfilled. Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)
(Effective from the academic year 2018 – 19)

IV SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT41	Complex Analysis, Probability and Statistical Methods	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CS42	Design and Analysis of Algorithms	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS43	Operating Systems	CS / IS	3	0	--	03	40	60	100	3
4	PCC	18SC44	Microcontroller and Embedded Systems	CS / IS	3	0	--	03	40	60	100	3
5	PCC	18CS45	Object Oriented Concepts	CS / IS	3	0	--	03	40	60	100	3
6	PCC	18CS46	Data Communication	CS / IS	3	0	--	03	40	60	100	3
7	PCC	18CSL47	Design and Analysis of Algorithm Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL48	Microcontroller and Embedded Systems Laboratory	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18KVK49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK49	Aadalitha Kannada (Kannada for Administration)									
		OR	OR									
		18CPC39	Constitution of India, Professional Ethics and Cyber Law									
TOTAL					17	08	04	24	420	480	900	24
					OR	OR	04	OR	OR	OR		
					18	10		26	360	540		

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course

18KVK49 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and **18KAK49** Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10	NCMC	18MATDIP41	Additional Mathematics - II	Mathematics	02	01	--	03	40	60	100	0
----	------	------------	-----------------------------	-------------	----	----	----	----	----	----	-----	---

(a) The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B.Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/ fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)
(Effective from the academic year 2018 – 19)

V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	HSMC	18CS51	Management, Entrepreneurship for IT industry	HSMC	2	2	--	03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS53	Database Management System	CS / IS	3	2	--	03	40	60	100	4
4	PCC	18CS54	Automata theory and Computability	CS / IS	3	--	--	03	40	60	100	3
5	PCC	18CS55	Application Development using Python	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CS56	Unix Programming	CS / IS	3	--	--	03	40	60	100	3
7	PCC	18CSL57	Computer Network Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL58	DBMS Laboratory with mini project	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25
Note: PCC: Professional Core, HSMC: Humanity and Social Science.												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)
(Effective from the academic year 2018 – 19)

VI SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18CS61	System Software and Compilers	CS / IS	3	2	--	03	40	60	100	4
2	PCC	18CS62	Computer Graphics and Visualization	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS63	Web Technology and its applications	CS / IS	3	2	--	03	40	60	100	4
4	PEC	18CS64X	Professional Elective -I	CS / IS	3	--	--	03	40	60	100	3
5	OEC	18CS65X	Open Elective –A	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CSL66	System Software Laboratory	CS / IS	--	2	2	03	40	60	100	2
7	PCC	18CSL67	Computer Graphics Laboratory with mini project	CS / IS	--	2	2	03	40	60	100	2
8	MP	18CSMP68	Mobile Application Development	CS / IS	--	--	2	03	40	60	100	2
9	INT	--	Internship	(To be carried out during the intervening vacations of VI and VII semesters)				--	--	--	--	--
TOTAL					15	10	06	24	320	480	800	24

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project, INT: Internship.

Professional Elective -1

Course code under 18XX64X	Course Title
18CS641	Data Mining and Data Warehousing
18CS642	Object Oriented Modelling and Design
18CS643	Cloud Computing and its Applications
18CS644	Advanced JAVA and J2EE
18CS645	System Modelling and Simulation
Open Elective –A (Not for CSE / ISE Programs)	
18CS651	Mobile Application Development
18CS652	Introduction to Data Structures and Algorithms
18CS653	Programming in JAVA
18CS654	Introduction to Operating System

Students can select any one of the open electives offered by any Department (Please refer to the list of open electives under 18CS65X).

Selection of an open elective is not allowed provided,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Adviser/Mentor.

Mini-project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the Mini-project work, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college. The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Mini-project:

(i) **Single discipline:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in the semester end examination (SEE) conducted at the department.

(ii) **Interdisciplinary:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belongs to.

Internship: All the students admitted to III year of BE/B.Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not takeup/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)
(Effective from the academic year 2018 – 19)

VII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	PCC	18CS71	Artificial Intelligence and Machine Learning	CS / IS	4	--	--	03	40	60	100	4
2	PCC	18CS72	Big Data Analytics	CS / IS	4	--	--	03	40	60	100	4
3	PEC	18CS73X	Professional Elective – 2	CS / IS	3	--	--	03	40	60	100	3
4	PEC	18CS74X	Professional Elective – 3	CS / IS	3	--	--	03	40	60	100	3
5	OEC	18CS75X	Open Elective –B	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CSL76	Artificial Intelligence and Machine Learning Laboratory	CS / IS	--	--	2	03	40	60	100	2
7	Project	18CSP77	Project Work Phase – 1	CS / IS	--	--	2	--	100	--	100	1
8	INT	--	Internship	(If not completed during the vacation of VI and VII semesters, it has to be carried out during the intervening vacations of VII and VIII semesters)								
TOTAL					17	--	04	18	340	360	700	20
Note: PCC: Professional core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.												
Professional Elective - 2												
Course code under 18CS73X		Course Title										
18CS731		Software Architecture and Design Patterns										
18CS732		High Performance Computing										
18CS733		Advanced Computer Architecture										
18CS734		User Interface Design										
Professional Electives – 3												
Course code under 18CS74X		Course Title										
18CS741		Digital Image Processing										
18CS742		Network management										
18CS743		Natural Language Processing										
18CS744		Cryptography										
18CS745		Robotic Process Automation Design & Development										
Open Elective –B (Not for CSE / ISE Programs)												
18CS751		Introduction to Big Data Analytics										
18CS752		Python Application Programming										
18CS753		Introduction to Artificial Intelligence										
18CS754		Introduction to Dot Net framework for Application Development										
Students can select any one of the open electives offered by any Department (Please refer to the list of open electives under 18CS75X). Selection of an open elective is not allowed provided,												
<ul style="list-style-type: none"> • The candidate has studied the same course during the previous semesters of the programme. • The syllabus content of open elective is similar to that of Departmental core courses or professional electives. • A similar course, under any category, is prescribed in the higher semesters of the programme. Registration to electives shall be documented under the guidance of Programme Coordinator/ Adviser/Mentor.												
Project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.												
CIE procedure for Project Work Phase - 1: (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates. (ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
Internship: All the students admitted to III year of BE/B.Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not takeup/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)
(Effective from the academic year 2018 – 19)

VIII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18CS81	Internet of Things	CS / IS	3	--	--	03	40	60	100	3
2	PEC	18CS82X	Professional Elective – 4	CS / IS	3	--	--	03	40	60	100	3
3	Project	18CSP83	Project Work Phase – 2	CS / IS	--	--	2	03	40	60	100	8
4	Seminar	18CSS84	Technical Seminar	CS / IS	--	--	2	03	100	--	100	1
5	INT	18CSI85	Internship	(Completed during the intervening vacations of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
TOTAL					06	--	04	15	260	240	500	18

Note: PCC: Professional Core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.

Professional Electives – 4

Course code under 18CS82X	Course Title
18CS821	Mobile Computing
18CS822	Storage Area Networks
18CS823	NoSQL Database
18CS824	Multicore Architecture and Programming

Project Work CIE procedure for Project Work Phase - 2:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Project Work Phase - 2:

(i) Single discipline: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.

(ii) Interdisciplinary: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belong to.

Internship: Those, who have not pursued /completed the internship shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card. Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: CIVIL ENGINEERING												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CV32	Strength of Materials	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV33	Fluid Mechanics	Civil Engg.	3	0	--	03	40	60	100	3
4	PCC	18CV34	Building Materials and Construction	Civil Engg.	3	0	--	03	40	60	100	3
5	PCC	18CV35	Basic Surveying	Civil Engg.	3	0	--	03	40	60	100	3
6	PCC	18CV36	Engineering Geology	Geology	3	0	--	03	40	60	100	3
7	PCC	18CVL37	Computer Aided Building Planning & Drawing	Civil Engg.	--	2	2	03	40	60	100	2
8	PCC	18CVL38	Building Materials Testing Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		OR										
		18KAK39	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
TOTAL					17	08	04	24	420	480	900	24
					OR	OR		OR	OR	OR		
					18	10		26	360	540		
Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.												
18KVK39Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.												
Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs												
10	NCMC	18MATDIP31	Additional Mathematics - I	Mathematics	02	01	--	03	40	60	100	0
(a)The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F												

grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE Activity Points to be earned by students admitted to BE/B. Tech/B. Plan day college programme (For more details refer to Chapter 6, AICTE Activity Point Programme, Model Internship Guidelines):

Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card.

The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours' requirement should be fulfilled. Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.

In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

IV SEMESTER

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BSC	18MAT41	Complex Analysis, Probability And Statistical Methods	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CV42	Analysis of Determinate Structures	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV43	Applied Hydraulics	Civil Engg.	3	0	--	03	40	60	100	3
4	PCC	18CV44	Concrete Technology	Civil Engg.	3	0	--	03	40	60	100	3
5	PCC	18CV45	Advanced Surveying	Civil Engg.	3	0	--	03	40	60	100	3
6	PCC	18CV46	Water Supply & Treatment Engineering	Civil Engg.	3	0	--	03	40	60	100	3
7	PCC	18CVL47	Engineering Geology Laboratory	Geology	--	2	2	03	40	60	100	2
8	PCC	18CVL48	Fluid Mechanics and Hydraulic Machines Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for Communication)/	HSMC	--	2	--	--	100	--	100	1
		OR										
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
TOTAL					17	08	04	24	420	480	900	24
					OR	OR		OR	OR	OR		
					18	10		26	360	540		

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.

18KVK39/49Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39/49Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10	NCMC	18MATDIP41	Additional Mathematics - II	Mathematics	02	01	--	03	40	60	100	0
----	------	------------	-----------------------------	-------------	----	----	----	----	----	----	-----	---

(a)The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b)These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

V SEMESTER

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	HSMC	18CV51	Construction Management & Entrepreneurship	Civil Engg.	2	2	--	03	40	60	100	3
2	PCC	18CV52	Analysis of Indeterminate Structures	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV53	Design of RC Structural Elements	Civil Engg.	3	2	--	03	40	60	100	4
4	PCC	18CV54	Basic Geotechnical Engineering	Civil Engg.	3	--	--	03	40	60	100	3
5	PCC	18CV55	Municipal Wastewater Engineering	Civil Engg.	3	--	--	03	40	60	100	3
6	PCC	18CV56	Highway Engineering	Civil Engg.	3	--	--	03	40	60	100	3
7	PCC	18CVL57	Surveying Practice	Civil Engg.	--	2	2	03	40	60	100	2
8	PCC	18CVL58	Concrete and Highway Materials Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/Environmental [Paper setting Board: Civil Engineering]	1	--	--	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
CIVIL ENGINEERING												
Scheme of Teaching and Examination 2018 - 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 - 19)												
VI SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18CV61	Design of Steel Structural Elements	Civil Engg.	3	2	--	03	40	60	100	4
2	PCC	18CV62	Applied Geotechnical Engineering	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV63	Hydrology and Irrigation Engineering	Civil Engg.	3	2	--	03	40	60	100	4
4	PEC	18CV64X	Professional Elective -1	Civil Engg.	3	--	--	03	40	60	100	3
5	OEC	18CV65X	Open Elective -A	Civil Engg.	3	--	--	03	40	60	100	3
6	PCC	18CVL66	Software Application Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
7	PCC	18CVL67	Environmental Engineering Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
8	EP	18CVEP68	Extensive Survey project	Civil Engg.	--	2	2	03	40	60	100	2
9	Internship	--	Internship	To be carried out during the vacation/s of VI and VII semesters and /or VII and VIII semesters.								
TOTAL					15	12	06	24	320	480	800	24
Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.												
Professional Elective -1												
Course code under 18CV64X												
18CV641			Matrix Method of Structural Analysis									

18CV642	Solid Waste Management
18CV643	Alternate Building Materials
18CV644	Ground Improvement Techniques
18CV645	Railway, Harbours, Tunnelling & Airports
Open Elective - A	
Course code under 18CV65X	
18CV651	Remote Sensing & GIS
18CV652	Traffic Engineering
18CV653	Occupational Health & Safety
18CV654	Sustainability Concepts in Civil Engineering
18CV655	Intelligent Transportation Systems
18CV656	Conservation of Natural Resources
<p>Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18XX65X).</p> <p>Selection of an open elective shall not be allowed if,</p> <ul style="list-style-type: none"> • The candidate has studied the same course during the previous semesters of the programme. • The syllabus content of open elective is similar to that of the Departmental core courses or professional electives. • A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.</p>	
<p>Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.</p>	
<p>AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.</p>	

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

VII SEMESTER

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	PCC	18CV71	Quality Surveying and Contract Management	Civil Engg.	3	--	--	03	40	60	100	3
2	PCC	18CV72	Design of RCC and Steel Structures	Civil Engg.	3	--	--	03	40	60	100	3
3	PEC	18CV73X	Professional Elective - 2	Civil Engg.	3	--	--	03	40	60	100	3
4	PEC	18CV74X	Professional Elective - 3	Civil Engg.	3	--	--	03	40	60	100	3
5	OEC	18CV75X	Open Elective -B	Civil Engg.	3	--	--	03	40	60	100	3
6	PCC	18CVL76	Computer Aided Detailing of Structures	Civil Engg.	--	2	2	03	40	60	100	2
7	PCC	18CVL77	Geotechnical Engineering Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
8	Project	18CVP78	Project Work Phase - 1		--	--	2	--	100	--	100	1
9	Internship	--	Internship	(If not completed during the vacation of VI and VII semesters, it shall be carried out during the vacation of VII and VIII semesters)								
TOTAL					15	04	06	21	380	420	00	20
Note: PCC: Professional core, PEC: Professional Elective.												
Professional Elective - 2												
Course code under 18CV73X		Course Title										
18CV731		Theory of Elasticity										
18CV732		Air Pollution and Control										
18CV733		Pavement Materials & Construction										
18CV734		Ground Water Hydraulics										
18CV735		Masonry Structures										
Professional Electives - 3												
Course code under 18CV74X		Course Title										
18CV741		Earthquake Engineering										
18CV742		Design Concepts of Building Services										
18CV743		Reinforced Earth Structures										

18CV744	Design of Hydraulic Structures
18CV745	Urban Transport Planning
Open Elective -B	
Course code under 18CV75X	Course Title
18CV751	Finite Element Method
18CV752	Numerical Methods and Applications
18CV753	Environmental Protection and Management
<p>Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18XX75X).</p> <p>Selection of an open elective shall not be allowed if,</p> <ul style="list-style-type: none"> • The candidate has studied the same course during the previous semesters of the programme. • The syllabus content of open elective is similar to that of the Departmental core courses or professional electives. • A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.</p>	
<p>Project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.</p> <p>CIE procedure for Project Work Phase - 1: (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.</p> <p>(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.</p> <p>Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.</p>	
<p>AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.</p>	

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2018 – 19 Outcome Based Education(OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)												
Programme: CIVIL ENGINEERING												
VIII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P					
1	PCC	18CV81	Design of Pre-stressed Concrete	Civil Engg.	3	--	--	03	40	60	100	3
2	PEC	18CV82X	Professional Elective - 4	Civil Engg.	3	--	--	03	40	60	100	3
3	Project	18CVP83	Project Work Phase - 2	Civil Engg.	--	--	16	03	40	60	100	8
4	Seminar	18CVS84	Technical Seminar	Civil Engg.	--	--	2	03	100	--	100	1
5	Internship	18CVI85	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
TOTAL					06	--	18	15	260	240	500	18
Note: PCC: Professional Core, PEC: Professional Elective.												
Professional Electives - 4												
Course code under 18CV82X		Course Title										
18CV821		Bridge Engineering										
18CV822		Prefabricated Structures										
18CV823		Advanced Foundation Engineering										
18CV824		Rehabilitation & Retrofitting										
18CV825		Pavement Design										
Project Work												
CIE procedure for Project Work Phase - 2:												
(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.												
The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25.The marks awarded for the project report shall be the same for all the batch mates.												
(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25.The marks awarded for the project report shall be the same for all the batch mates.												
SEE for Project Work Phase - 2:												

(i) Single discipline: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.

(ii) Interdisciplinary: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belongs to.

Internship: Those, who have not pursued /completed the internship, shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).



ಬೆಂಗಳೂರು ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳಿ

BANGALORE WATER SUPPLY AND SEWERAGE BOARD
Office of the Chief Engineer (K), 5th Floor, Cauvery Bhavan, K.G.Road, Blore-560 009.

BWSSB/CEKTE/TA-10/113/2019/ 703 /2022-23

Date: 13 /06/2022

To,
EEK-3

Sub: Seeking permission to visit Water Treatment Plant at Thorekadanahalli.

Ref: 1. Letter from R R. Institute Of Technology dt: 23.05.2022.

*_*_*_*_*_*_*_*_*_*

With respect to the above subject. **PRINCIPAL, R.R. Institute Of Technology dt: 23.05.2022** of vide their letter cited under reference has requested permission to visit the Water Treatment Plant at Thorekadanahalli. The faculty and students intend to have educational trip on **18.06.2022**, 73 Members (3 faculty + 70 Students) who would like to visit Thorekadnahalli on above said date.

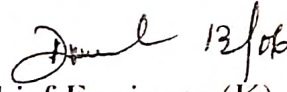

In this regard it may be considered to permit the faculty and students **PRINCIPAL, R.R. Institute Of Technology dt: 23.05.2022** under the following conditions.

1. It is mandatory that. students should be above the age of 16 and the team should be accompanied by their Faculty.
2. One Assistant Engineer/Assistant Executive Engineer of the Board will be accompanying the team throughout the visit.
3. Selfie/Photography is prohibited in the Treatment Plant and BWSSB premises. Mobile phones/camera shall not be carried inside the BWSSB premises.
4. No recreation/cultural activities shall be entertained in the vicinity.
5. Consumption of food and vehicles are not allowed inside BWSSB premises.
6. Private Vehicles are not allowed inside BWSSB premises.
7. Faculty /Representatives of Institution will be held responsible for the safety of the students.

8. Visitors are prohibited to enter the restricted area in the Treatment Plant. If violated, Faculty / Representation of institute will be held responsible for any kind of loss/damages to any individual and / or BWSSB property.
9. Entry is restricted to the Water Treatment Plant only.
10. The Prescribed fee for the visitors shall be paid to BWSSB before the visit.

In addition to the above utmost care shall be taken to avoid any untoward incidents/accidents. One Assistant Executive Engineer shall accompany the team throughout the visit. Any untoward incident/accident occurs during the visit, the Faculty/Representatives of the institution will be solely responsible. The team of visitors shall comprise those mentioned in the enclosed list and their identities shall be thoroughly verified and ensure that only these members are allowed inside. The Head of the Team shall give an undertaking for complying to the conditions.

EEK-3 may permit the students of **PRINCIPAL, R.R. Institute Of Technology** dt: **23.05.2022** to visit the Water Treatment Plant at Thorekadanahalli on **18.06.2022**, 73 Members (3 faculty + 70 Students) on acceptance of all the above conditions & Faculty/Representatives of the Institution shall be entirely responsible for the visit.

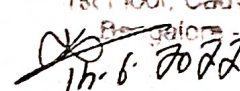

13/06
Chief Engineer (K)
BWSSB


Copy to: ACE (K-2) for information and necessary action.

Copy to: EECH for information and shall be equally responsible as EEK-3 for the above visit of the faculty and students.

Copy to **R.R. Institute Of Technology** for information & needful.

Copy to: AC(Accounts) for information & needful.

PN-27514-14-6-2022-14-365
Office of the Assistant Controller (Accts.)
Bangalore Water Supply and Sewerage Board
1st Floor, Cauvery Bhavan,
Bangalore - 560 003

14.6.2022

Report on

Industrial visit to water treatment plant at Torekadanahalli

Bangalore Water Supply & Sewerage Board (BWSSB) Bangalore has set up a Water Treatment Plant at Torekadanahalli village, Malavalli Taluka, Mandya District. BWSSB has set up a 1080 MLD filtration plant in six stages to treat the water of Cauvery and its tributary rivers. This treated water is supplied to Bangalore city by 60 km long pipeline. In this plant different types of treatment is done on raw water like aeration, pre-chlorination and coagulation, rapid sand filtration, back washing, post chlorination, etc. Commissioning of seventh stage water treatment with a capacity of 800 MLD is in progress will increase the capacity of entire plant to 1880 MLD to cater the needs of drinking water for the citizens of Bangalore.

Department of Civil Engineering, R R Institute of Technology, Bangalore organized a field visit on 15th July 2022 to Water Treatment Plant, Torekadanahalli, as a part of Environmental Engineering studies. 64 civil engineering and architecture students joined the visit under the guidance of faculty Prof. Ravi Patil, Prof. Gunasheela P, Prof. Priyadarshini H P & Prof. Girish G. There a class about the plant was arranged by the BBMP Cauvery Project at Torekadanahalli. Er. Naresh and Er. Raghavendra explained well about the structure and working of the water purification plant and offered us a visit to the concerned areas. Students got an excellent benefit by visiting one of the biggest water purification plants in Karnataka with a capacity of 1080 MLD and understand about the purification methods.

Water treatment is whereby the used water or raw water from the river Cauvery is treated in process to make the water more acceptable for a desired end-used. Raw water from the Cauvery River is drawn through a pipeline of 35 km flowing under gravity flow. The goal of water treatment is to remove existing contaminants in the water, or reduce the concentration of such contaminants so the water becomes fit for its desired end-used. The process involved in treating water is solids separation using physical process and chemical process.

Before the water is distributed into the public houses, the water has to undergo the water treatment process such as follows: -

- 1. Aeration are to eliminate unneeded dissolved gases such as (CO₂, H₂S, NH₃). It is also to increase DO level in water and remove DOC.

2. Coagulation is the removal of turbidity from the water.
3. Turbidity is a cloudy appearance of water caused by small particles suspended therein. Water with little or no turbidity will clear.
4. Flocculation is mixing process in which particles are brought into contact in order to promote their agglomeration.
5. Sedimentation is to remove suspended material from water by the action of gravity.
6. Filtration is to remove suspended particles from water by passing the water through medium such as sand.
7. Disinfection is to destroy pathogens within a practicable period of time.
8. Water distribution is to satisfy the water requirements for a combination of domestic, commercial, industrial and fire-fighting purposes.
9. After water passes or flowing through all distinctive features, it's collected into water tank and ready to be supply to houses area.

Water plays a very important role in human life, whether for daily routine purpose or human health. This field visit gave us the knowledge about the purification of water on large scale and made us aware about the quality of water since it may affect the human health especially. Also the trip made us realized that it is not easy to supply the water directly from the main supply to the people.

Co-ordinator's

Ravi Patil

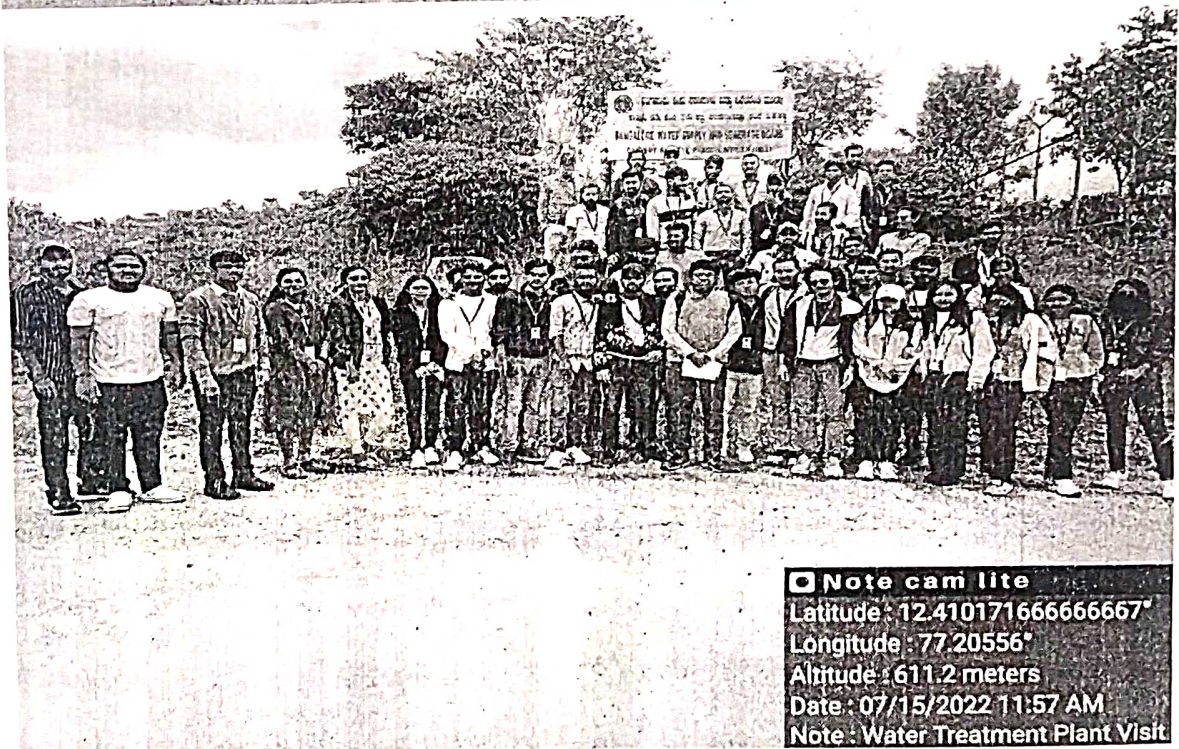
Gunasheela P

Priyadarshini H P

1100

16/7/22

PHOTO GALLERY



RS
16/7/22

8/16/7/22



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'


Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Civil Engineering

Date: 15-06-2022

List of faculty

Sl.No	Name of Faculty	Designation	Department
1	Ravi Patil	Assistant Professor	Civil Engineering
2	Gunasheela P	Assistant Professor	Civil Engineering
3	Priyadarshini H P	Assistant Professor	Civil Engineering


HOD C.E.
R.R. INST. OF TECHNOLOGY
Chikkabanavara, Bangalore - 560 090



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi,
Recognised by Govt. of Karnataka,

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Civil Engineering

Student List- T K Halli Visit

Sem:6th sem

Academic Year: 2021-22

1	1RI16CV350	ARJUN N SHAJI
2	1RI18CV002	AKSHAY A C
3	1RI18CV004	ASHWIN B C
4	1RI18CV005	ASWIN PURUSHOTHAMAN P
5	1RI18CV011	DEV ANAND S
6	1RI18CV018	HEMANTH GOWDA R
7	1RI18CV026	MUHAMMED SHAKIR
8	1RI18CV033	RAMYA T L
9	1RI18CV043	TENZIN PHURPA JOMA
10	1RI18CV046	VYSHNAV RAJESH
11	1RI18CV423	PRABESH BASENT
12	1RI19CV001	ABHINAV RAJ
13	1RI19CV002	ANUSHA D S
14	1RI19CV004	BINAY KUMAR CHAUDHARY
15	1RI19CV005	BIPUL KOIRALA
16	1RI19CV006	BIR BAHADUR TAMANG
17	1RI19CV007	CHARAN U
18	1RI19CV008	DHAN BAHADUR PALI
19	1RI19CV011	JAY PRAKASH
20	1RI19CV012	LAV KUMAR SINGH
21	1RI19CV013	LEKHNATH ADHIKARI
22	1RI19CV014	MANAHAR NISHAD
23	1RI19CV015	MANISH KUMAR THAKUR

24	1RI19CV016	MANJUSHREE M
25	1RI19CV017	MD TAUSIF REZA ANSARI
26	1RI19CV018	MOHMMED YASIN
27	1RI19CV019	NARESH CHAUDHARY
28	1RI19CV020	NIHARIKA N
29	1RI19CV021	NIYAZ ANSARI
30	1RI19CV022	R LALBUATSAIHA
31	1RI19CV024	RUMA NOATIA
32	1RI19CV025	SANDESH KUMAR YADAV
33	1RI19CV027	SATISH KUMAR CHAUDHARY
34	1RI19CV028	SNGEWHUN SHISHA THABAH
35	1RI19CV029	SUJIT KUMAR BARHI
36	1RI19CV030	SUMI S
37	1RI19CV031	UJJWAL KHANAL
38	1RI19CV032	VARUN B R
39	1RI19CV033	VIKASH KUMAR
40	1RI19CV034	YASHWANTH K
41	1RI20CV400	BASHIDA NATALIA IAWPHNIAW
42	1RI20CV401	PINKI MACHAHARY
43	1RI20CV402	SOPHIA GRACE CHYRMANG


HOD CECID Engg.
R.R. INST. OF TECHNOLOGY
 B. K. Ashwary, Bangalore 560 09

E-resources and techniques used	
E-Resources and Techniques used	<ol style="list-style-type: none"> 1. E-Shikshana 2. Microsoft Teams 3. Zoom App 4. Cisco WebEx App 5. Google Meet/Google Class Room 6. Virtual Labs 7. Blogspot 8. YouTube
1, E-resources at library.	<ol style="list-style-type: none"> 1. SPRINGER-EJOURNALS: https://link.springer.com/search?facet-content-type=%22Journal%22&showAll=false 2. MCGRAWHILL PUBLICATIONS –EBOOKS: http://mcgrawhilleducation.pdn.ipublishcentral.com/bookshelf 3. SCIENCE DIRECT-ELSEVIER (EBOOK & EJOURNALS): https://www.sciencedirect.com/browse/journals-and-books?contentType=BK&accessType=subscribed&subject=physical-sciences-and-engineering
2, VTU e-learning	http://elearning.vtu.ac.in
DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION SCIENCE ENGINEERING	
SUB	NPTEL Links
C Programming Language	https://www.youtube.com/playlist?list=PLyqSpQzTE6M8O9Oy9t-yhiAUXOi-rmTp_
Engineering Mathematics III	https://www.youtube.com/watch?v=md5UCR7mcIY&list=PLbMVogVj5nJSxFihV-ec4A3z_FOGPRCo-
Data Structure and Applications	https://www.youtube.com/watch?v=zWg7U0OEAoE&list=PLBF3763AF2E1C572F
Analog and Digital Electronics	https://www.youtube.com/watch?v=CeD2L6KbtVM&list=PL803563859BF7ED8C

Computer Organization	https://www.youtube.com/watch?v=leWKvuZVUE8&list=PL1A5A6AE8AFC187B7
Software Engineering	https://www.youtube.com/watch?v=Z6f9ckEEIsU&list=PL8751DA481F0F0D17
Discrete Mathematical Structures	https://www.youtube.com/watch?v=xIUfKMKSB3Y&list=PL0862D1A947252D20
Complex Analysis, Probability and Statistical Methods	https://www.youtube.com/watch?v=LJ-LoJhbBA4&list=PLbMVogVj5nJQ2vsW_hmyvVfO4GYWaaPp7
Design and Analysis of Algorithms	https://www.youtube.com/watch?v=5Y8Lfsreeck&list=PL7DC83C6B3312DF1E
Operating Systems	https://www.youtube.com/watch?v=VG9VopzV_T0
Microcontroller and Embedded Systems	https://www.youtube.com/watch?v=p9wxyIx-j-c
Object Oriented Concepts	https://www.youtube.com/watch?v=qiYMyYqZVY
Data Communication	https://www.youtube.com/watch?v=sG6WGvzmVaw&list=PL8BF3052396E05930
Management & Entrepreneurship For	https://www.youtube.com/watch?v=TsZukmeaewc
Computer Networks And Security(C	https://www.youtube.com/watch?v=3DZLlTfbqtQ&list=PL32DBC269EF768F74
Database Management System(DBM	https://www.youtube.com/watch?v=EUzsy3W4I0g&list=PL9426FE14B809CC41
Automata Theory & Computability (https://www.youtube.com/watch?v=-aIRqNnUvEg&list=PL85CF9F4A047C7BF7
Application Development Using Pyt	https://www.youtube.com/watch?v=c235EsGFcZs
Unix Programming(UNIX)	https://www.youtube.com/watch?v=Avdp-Uj3Qyc

Object Oriented Modelling & Design(OOMD)	https://www.youtube.com/watch?v=m6eQ8OQ7haU
Artificial intelligence(AI)	https://www.youtube.com/watch?v=XCPZBD9IbVo&list=PLbMVogVj5nJQu5qwm-HmJgjmeGhsErvXD
Cryptography, Network Security and Cyber Law	https://www.youtube.com/watch?v=Q-HugPvA7GQ&list=PL71FE85723FD414D7
Computer Graphics and Visualization	https://www.youtube.com/watch?v=fwzYuhduME4&list=PL338D19C40D6D1732
System Software and Compiler Design	https://www.youtube.com/watch?v=FOyuMclwymw
Operating Systems	https://www.youtube.com/watch?v=VG9VopzV_T0
Data Mining and Data Warehousing	https://www.youtube.com/watch?v=m5c27rQtD2E
Python Application Programming	https://www.youtube.com/watch?v=c235EsGFcZs
Web Technology & Its Applications	https://www.youtube.com/watch?v=QEtWL4IWIL4
Advanced Computer Architecture	https://www.youtube.com/watch?v=sCmsrSBJT8A&list=PLbMVogVj5nJQmNggs7GLBE-HhMi0GQOPW
Machine Learning	https://www.youtube.com/watch?v=whSKA8aO6xQ&pbjreload=101
Information & Network Security	https://www.youtube.com/watch?v=j7Ngtl1cCpY
Storage Area Network	https://www.youtube.com/watch?v=QGahViBo2_g&list=PLbMVogVj5nJSaAL3dScnPN3AesqFJ4esR

Internet of Things and Applications	https://www.youtube.com/watch?v=YOXwcbwSEUo&list=PL04D5787E247DC324
Big Data Analytics	https://www.youtube.com/watch?v=m-aKj5ovDfg
Modern Interface Design	https://www.youtube.com/watch?v=vS0khTah3zU
System Modeling and Simulation	https://www.youtube.com/watch?v=ODKOfLL7sB4
DEPARTMENT OF ELECTRICAL ENGINEERING	
ENGG MATHEMATICS	https://youtu.be/c9NibpoQjDk
Electric Circuit Analysis (Core)	https://youtu.be/SNjcFH24UpI
Transformers and Generators	https://youtu.be/NkRk_xaRwjg
ANALOG ELECTRONICS	https://youtu.be/2bprLH4cUSo
Digital System Design	https://youtu.be/CL3ups78jrs
Electrical and Electronic Measurements	https://youtu.be/ZzKZuEPDdkA
ENGG MATHEMATICS	https://youtu.be/LJ-LoJhbBA4
Power Generation and Economics (Core)	https://youtu.be/uulD0KVkmWg
Transmission and Distribution	https://youtu.be/uy9lZCdkQIM
Electric Motors	https://youtu.be/qmcriUdYBW0
Electromagnetic Field Theory	https://youtu.be/NED2Cl8u9Q0
Operational Amplifiers and Linear ICs	https://youtu.be/cITA0pONnMs
MANAGEMENT & ENTREPRENEURSHIP	https://youtu.be/p7vhcob-YkI
Power Electronics	https://youtu.be/1Auay7ja2oY
Signals and Systems	https://youtu.be/0nZYen9w_eo
Renewable Energy Systems	https://youtu.be/UW4HYJ36q0Y
Control Systems	https://youtu.be/Cl23xQrvFhk
Power System Analysis – 1	https://youtu.be/fBmldr_gRBk
Digital Signal Processing (Core)	https://youtu.be/6dFnpz_AEyA

3 . E-learning
resources from
NPTEL.

Sensors and Transducers	https://youtu.be/1uPTyJxZzyo
Power System Analysis – 2	https://youtu.be/fBmldr_gRBk
Power System Protection	https://youtu.be/QsGn7H_14VY
Utilization of Electrical Power	https://youtu.be/fOrZMMWo1mA
Power System Operation and Control	https://youtu.be/zkN13OmgGOs
Industrial Drives and Applications	https://youtu.be/Ub-csHc4VhA
Operation and Maintenance of Solar	https://youtu.be/BTyJrRy8DUE
DEPARTMENT OF MECHANIC	
Mathematics	https://nptel.ac.in/courses/111/105/111105121/
Mechanics of Materials	https://nptel.ac.in/courses/105/106/105106172/
Basic Thermodynamics	https://nptel.ac.in/courses/112/105/112105123/
Material Science	https://nptel.ac.in/courses/112/108/112108150/
Metal cutting and forming	https://nptel.ac.in/courses/112/105/112105233/
Computer Aided Machine Drawing	https://nptel.ac.in/courses/112/102/112102101/
Finite Element Methods	https://nptel.ac.in/courses/112/104/112104193/
Computer integrated Manufacturing	https://onlinecourses.nptel.ac.in/noc20_me44/preview
Heat Transfer	https://nptel.ac.in/courses/112/105/112105271/
Design of Machine Elements II	https://nptel.ac.in/courses/112/106/112106137/
Automobile Engineering	https://onlinecourses.nptel.ac.in/noc20_de06/preview
Industrial Safety	https://onlinecourses.nptel.ac.in/noc20_mg43/preview
Operations Research	https://onlinecourses.nptel.ac.in/noc19_ma29/preview
Additive Manufacturing	https://onlinecourses.nptel.ac.in/noc20_me50/preview
Product life cycle management	https://nptel.ac.in/courses/110/104/110104084/

DEPARTMENT OF ELECTRON	
ENGG MATHEMATICS	https://youtu.be/c9NibpoQjDk
ELECTRONIC INSTRUMENTATION	https://youtu.be/3eYmFjHnQjY
ANALOG ELECTRONICS	https://youtu.be/2bprLH4cUSo
DIGITAL ELECTRONICS	https://youtu.be/BqP6sVYlrr0
NETWORK ANALYSIS	https://youtu.be/SNjcFH24UpI
ENGG ELECTROMAGNETICS	https://youtu.be/NED2CI8u9Q0
ENGG MATHEMATICS	https://youtu.be/LJ-LoJhbBA4
S & s	https://youtu.be/0nZYen9w_eo
CONTROL SYSTEMS	https://youtu.be/CI23xQrvFhk
PRINCIPLES OF COMM SYSTEMS	https://youtu.be/TPm0XSPxld8
LIC	https://youtu.be/clTA0pONnMs
MICROPROCESSORS	https://youtu.be/0t4LROuEVnw
MANAGEMENT & ENTERPRENEURSHIP	https://youtu.be/p7vhcob-YkI
DSP	https://youtu.be/6dFnpz_AEyA
VERILOG HDL	https://youtu.be/IXjNLK7GC70
ITC	https://youtu.be/f8RvFlr5wRk
NANO ELECTRONICS	https://youtu.be/wdNFCWLuC10
SWITCHING & FINITE AUTOMATA	https://youtu.be/-aIRqNnUvEg
OPERATING SYSTEM	https://youtu.be/jciGIvn7UfM
ELECTRICAL ENGINEERING MATERIALS	https://youtu.be/m9I1tVXyFp8
MICROCONTROLLER	https://youtu.be/0t4LROuEVnw
DIGITAL COMM	https://youtu.be/qQcpcnmJNluU
ARM MICROCONTROLLER & EN	https://youtu.be/4VRtujwa_b8
VLSI DESIGN	https://youtu.be/9SnR3M3CIm4
CCN	https://youtu.be/3DZLIItfbqQ
CELLULAR MOBILE COMM	https://youtu.be/-ymnQ5rpcYA
ADAPTIVE SIGNAL PROCESSING	https://youtu.be/ya0-S1apej8
ARTIFICIAL NEURAL NETWORKS	https://youtu.be/xbYgKoG4x2g
DIGITAL SWITCHING SYSTEMS	https://youtu.be/mLoLouF026g

MICROELECTRONICS	https://youtu.be/-M-941EcjC8
DATA STRUCTURES	https://youtu.be/zWg7U00EAoE
POWER ELECTRONICS	https://youtu.be/1Auay7ja2oY
DIGITAL SYSTEMM DESIGN	https://youtu.be/CL3ups78jrs
MICROWAVE & ANTENNA	https://youtu.be/NW1NXoM4q5c
DIGITAL IMAGE PROCESSING	https://youtu.be/CVV0TvNK6pk
POWER ELECTRONICS	https://youtu.be/1Auay7ja2oY
MULITMDIA COMM	https://youtu.be/KHGxigA8Jko
DSP ALGORITHMS	https://youtu.be/GlbJxX130iE
IOT	https://youtu.be/-RHYCpsn8TA
PATTERN RECOGNITION	https://youtu.be/mfePdDh9t6Q
WIRELESS CELLULAR & LTE 4G	https://youtu.be/-ymnQ5rpcYA
FIBER OPTICS & NETWORKS	https://youtu.be/oIurmHsRFSc
MICROELECTRONIC MECHNAIC	https://youtu.be/5lQ4b_EySA4
SPEECH PROCESSING	https://youtu.be/hOR72901Z-U
RADAR ENGG	https://youtu.be/-YyfN8vM04g
MACHINE LEARNING	https://youtu.be/BRMS3T11Cdw
NETWORK & CYBER SECURITY	https://youtu.be/Q-HugPvA7GQ
DEPARTMENT OF CIVIL ENG	
Strength of Materials	https://nptel.ac.in/courses/105/105/105105108/
Fluid Mechanics	https://nptel.ac.in/courses/112/104/112104118/
Basic Surveying	https://nptel.ac.in/courses/105/107/105107122/
Engineering Geology	https://nptel.ac.in/courses/105/105/105105106/
Building Materials and Construction	https://nptel.ac.in/courses/105/102/105102088/
Basic Surveying Practice	https://nptel.ac.in/courses/105/104/105104101/
Analysis of Determinate Structures	https://nptel.ac.in/courses/105/105/105105166/
Applied Hydraulics	https://nptel.ac.in/courses/105/103/105103096/
Concrete Technology	https://nptel.ac.in/courses/105/104/105104030/
Basic Geotechnical Engineering	https://nptel.ac.in/courses/105/101/105101201/

Advanced Surveying	https://nptel.ac.in/courses/105/107/105107122/
Design of RC Structural Elements	https://nptel.ac.in/courses/105/105/105105105/
Analysis of Indeterminate Structures	https://nptel.ac.in/courses/105/105/105105109/
Applied Geotechnical Engineering	https://nptel.ac.in/courses/105/101/105101001/
Computer Aided Building Planning and Design	http://www.nptelvideos.in/2012/12/computer-aided-design.html
Railways, Harbours, tunneling and Airports	https://nptel.ac.in/courses/105/107/105107123/
Air pollution and Control	https://nptel.ac.in/courses/105/102/105102089/
Traffic Engineering	https://nptel.ac.in/courses/105/101/105101008/
Geotechnical Engineering Laboratory	https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-ce36/
Construction Management and Entrepreneurship	https://nptel.ac.in/courses/105/104/105104161/
Design of Steel Structural Elements	https://nptel.ac.in/courses/105/105/105105162/
Highway Engineering	https://nptel.ac.in/courses/105/101/105101087/
Water Supply and Treatment Engineering	https://nptel.ac.in/courses/105/105/105105201/
Solid Waste Management	https://nptel.ac.in/courses/105/103/105103205/
Water Resource Management	https://nptel.ac.in/courses/105/108/105108081/
Ground Improvement Techniques	https://nptel.ac.in/courses/105/108/105108075/
Alternative Building Materials	https://onlinecourses.nptel.ac.in/noc19_ce40/preview
Finite Element Analysis	https://nptel.ac.in/courses/112/104/112104193/
Municipal and Industrial Waste Water Engineering	https://nptel.ac.in/courses/105/104/105104102/
Design of RCC and Steel Structures	https://nptel.ac.in/courses/105/105/105105162/
Hydrology and Irrigation Engineering	https://nptel.ac.in/courses/105/105/105105110/
Design of Bridges	https://nptel.ac.in/noc/courses/noc18/SEM2/noc18-ce23/
Urban Transportation and Planning	https://nptel.ac.in/courses/105/106/105106058/
Rehabilitation and Retrofitting of Structures	https://nptel.ac.in/courses/105/106/105106202/
Reinforced Earth Structures	https://nptel.ac.in/courses/105/106/105106052/
Structural Dynamics	https://nptel.ac.in/courses/105/101/105101006/
Quantity Surveying and Contracts Management	https://nptel.ac.in/courses/105/103/105103093/
Design of Pre Stressed Concrete Elements	https://nptel.ac.in/courses/105/106/105106117/
Earthquake Engineering	https://nptel.ac.in/courses/105/101/105101004/
Hydraulic Structures	https://nptel.ac.in/courses/105/103/105103021/

Pavement Design	http://rkgitw.ac.in/nptel/105101087/Transportation%20Engg%201/7
Advanced Foundation Design	http://www.digimat.in/nptel/courses/video/105105039/L10.html
DEPARTMENT OF BASIC SCIE	
Introductory organic chemisty I	https://www.youtube.com/watch?v=9lrKv0d-eY&list=PLyqSpQzTE6M_jvSDXY7SLb6Qo5XkSbhs4
Introductory organic chemisty I	https://www.youtube.com/watch?v=9lrKv0d-eY&list=PLyqSpQzTE6M_jvSDXY7SLb6Qo5XkSbhs4
Physics of Materials	https://www.youtube.com/watch?v=dwm_kegn-Tg&feature=emb_logo
Technical English for Engineers	https://www.youtube.com/watch?v=xVFMmyROOo4&list=PLzf4HHlsQFwIQUeZq_ykEVB6qZrTRnJZn
Engineering Mathematics-I	https://www.youtube.com/watch?v=4QFsiXfgbzM&feature=youtu.be
Engineering Mathematics-I	https://www.youtube.com/watch?v=4QFsiXfgbzM&feature=youtu.be



Since 1993

PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

IOAC

-PKM Educational Trust ®

ORGANIZING COMMITTEE

Chief Patron

Sri Y. Raja Reddy

Chairman, PKMET, Bengaluru

Patron

Sri Kiran H.R.

Secretary, PKMET, Bengaluru

Sri Arun H.R.

Director, PKMET, Bengaluru

Administrators

Prof. Maya Salimath G

Director QAC –R. R. Institutions

Chair Person

Dr. Mahendra K V

Principal- RRIT Bengaluru

Organising Secretary

Prof. Parimala Gandhi G

IQAC Coordinator, RRIT, Bangalore

Organising Committee Member

Prof. Mohan Kumar BN

Assistant Professor, ECE

Prof. Dhananjaya MK

Assistant Professor, CSE

Students:

Mr. Sharath R (CSE)

Mr. Saikiran G (ECE)

IOAC

Cordially invites all Teaching Staff for
FDP

On

“E-Workshop on Training on virtual labs”

On

19th July 2022

CHIEF GUEST

Sri Y. Raja Reddy

Chairman, PKMET, Bengaluru

GUEST OF HONOR

Sri Kiran H.R.

Secretary, PKMET, Bengaluru

GUEST OF HONOR

Sri Arun H.R.

Director, PKMET, Bengaluru

Resource Persons:

Outreach team, The Virtual Lab@NITK

National Institute of Technology Karnataka, Surathkal

Mangaluru, India – 575025


Signature

Dr. Mahendra K V
PRINCIPAL



R .R Institute of Technology

Chikkabanavara Bangalore-90

Accredited by NAAC

Affiliated to VTU Belgaum, Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Accredited by NAAC



is organizing

Training on **VIRTUAL LABS**

In association with

National Institute of Technology, Karnataka , Surathkal



Resource Person

Dr. Sheena

Outreach coordinator, Virtual labs,
Associate Professor, School of Management NITK, Surathkal

Patron:

Dr. Mahendra K V

Principal- RRIT Bengaluru

Programme coordinator:

Mrs. Parimala Gandhi

IQAC coordinator, RRIT

Nodal Coordinator:

Mr. B N Mohan Kumar

Assistant Professor

Platform: **Through Microsoft Teams**

Meeting ID: 48688403062

Password: 8zwhfU

Date: **19 July 2022 @10.30AM**

tejaswini ppt notes for electrochemistry - Microsoft PowerPoint (Product Activation Failed)

File Home Insert Design Transitions Animations Slide Show Review View Acrobat

Clipboard Copy Paste Format Painter New Slide Section Slides

Font Paragraph Drawing

Slides Outline

22

23

24

25

26

07-03-2023

CONCENTRATION CELLS

Electrolyte concentration cells:
 A concentration cell is an electrochemical cell in which both anode and cathode are made up of same metal in contact with solution of the same electrolyte but of different concentration.
 Ex: Copper concentration cell $\text{Cu}|\text{Cu}^{2+}(\text{C}_1)||(\text{Cu}^{2+}(\text{C}_2))\text{Cu}$ (C_2 is greater than C_1).

Working and construction of Concentration cells
 A concentration cell is an electrochemical cell, that generates electrical energy when two electrodes of the same metal are in contact with solutions of its own ions at different concentrations.

© R & R INSTITUTIONS, BANGALORE

Activate Windows
Go to Settings to activate Windows

Slide 23 of 26 | "Office Theme" | English (India) | 28°C Sunny | 14:49 | 07-03-2023

tejaswini ppt notes for electrochemistry - Microsoft PowerPoint (Product Activation Failed)

File Home Insert Design Transitions Animations Slide Show Review View Acrobat

Clipboard Copy Paste Format Painter New Slide Section Slides

Font Paragraph Drawing

Slides Outline

15

16

17

18

19

20

07-03-2023

Reference electrodes: Reference electrodes are the electrode whose potential is known and are used for the determination potential of other electrode.
 Reference electrode is classified into 2 types
 1. Primary reference electrode 2. Secondary reference electrode

- Construction and working of Calomel electrode

Calomel electrode consists of glass tube at the bottom of which mercury is placed. Above

Construction.

© R & R INSTITUTIONS, BANGALORE

Activate Windows
Go to Settings to activate Windows



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka
Accredited by NAAC with 'B+'
Raja Reddy Layout, Chikkahosavara, Bengaluru – 560 090

Internal Quality Assurance Cell

Date: 22/07/2022

REPORT ON

Training on Virtual Lab

Event Date: 19-07-2022

Platform: Microsoft Teams

Resources Person: **Dr. Sheena**

Outreach coordinator, Virtual labs,
Associate Professor, School of Management NITK, Surathkal

Overview:

The RRIT- Internal Quality Assurance Cell (IQAC) in association with **National Institute of Technology, Karnataka, Surathkal** had organized an one day Training Programme on "Virtual Labs". The main objective of this Programme was to brief the faculties about the technological aspects of Virtual Labs.

Topics Covered:

- ❖ What is Virtual Lab?
- ❖ What is the use of Virtual Lab?
- ❖ Applications of Virtual Lab ?
- ❖ How to Teach Virtual lab for students?

Number of Participants: 60

Outcome:-

The Seminar enabled the participants to understand the fundamentals of Virtual Lab and motivated the virtual lab to understand the latest technologies for the next decade and how those technologies affect their career and how to choose structured career path and understanding of Virtual lab. The session also motivated the faculties as to how they have to keep in touch with technologies for next decade. So that they can do better in their profession. The participants felt that the session was informative.

Photo Gallery:

← July 19, 2022
11:28 | Teams
⊙

● Organizer

Participants

- AM
Abhrshek M
🗑️
🔒
- A
amamath (Guest)(Guest)
🗑️
🔒
- A
anshu(Guest)
🗑️
🔒
- AY
Anusha D Y(Guest)
🗑️
🔒
- CS
Chamanthi S(Guest)
🗑️
🔒
- CV
chitharanjandas v (Guest)(...
🗑️
🔒
- DN
Dr Suresha C N (Guest)(Gue...
🗑️
🔒
- DS
Dr Gullapalli Sankara
🗑️
🔒
- DP
Dr. Praseeda (Guest)
🗑️
🔒
- DS
Dr. Shrivshankar (Gue
⋮

← July 19, 2022
11:28 | Teams
⊙

- Dr.Amita R Shettar
🗑️
🔒
- Dr.Channabasavaraj S (Gue...
🗑️
🔒
- GY
Ganesh Y S
🗑️
🔒
- GG
Girish G(Guest)
🗑️
🔒
- GG
Gowtham G (Guest)(Guest)
🗑️
🔒
- JK
JHANSI K(Guest)
🗑️
🔒
- L
lakshmi (Guest)
🗑️
🔒
- LK
Lohthkumar J K (Guest)(G...
🗑️
🔒
- MK
Mahendra KV (Guest)(Guest)
🗑️
🔒
- M
Mahima N (Guest)(G
🗑️
🔒
- MR
Mrs. Shwetha K R
⋮

← July 19, 2022
11:28 | Teams
⊙

- MK
Mahendra KV (Guest)(Guest)
🗑️
🔒
- M
Mahima N (Guest)(Guest)
🗑️
🔒
- MR
Mrs. Shwetha K R
🗑️
🔒
- MG
Mrs.G Parimala Gandhi
Started recording
- Mrs. Soumya G J
On hold
- NA
NITK Akeltaya (Guest)(Guest)
🗑️
🔒
- NS
NITK Shreshtha (Guest)(Gue...
🗑️
🔒
- PG
Parimala Gandhi (Guest)(G...
🗑️
🔒
- PC
pooja c(Guest)
🗑️
🔒
- PJ
Pradeesha J (Guest)
🗑️
🔒
- PM
PRIVADARSHINI M

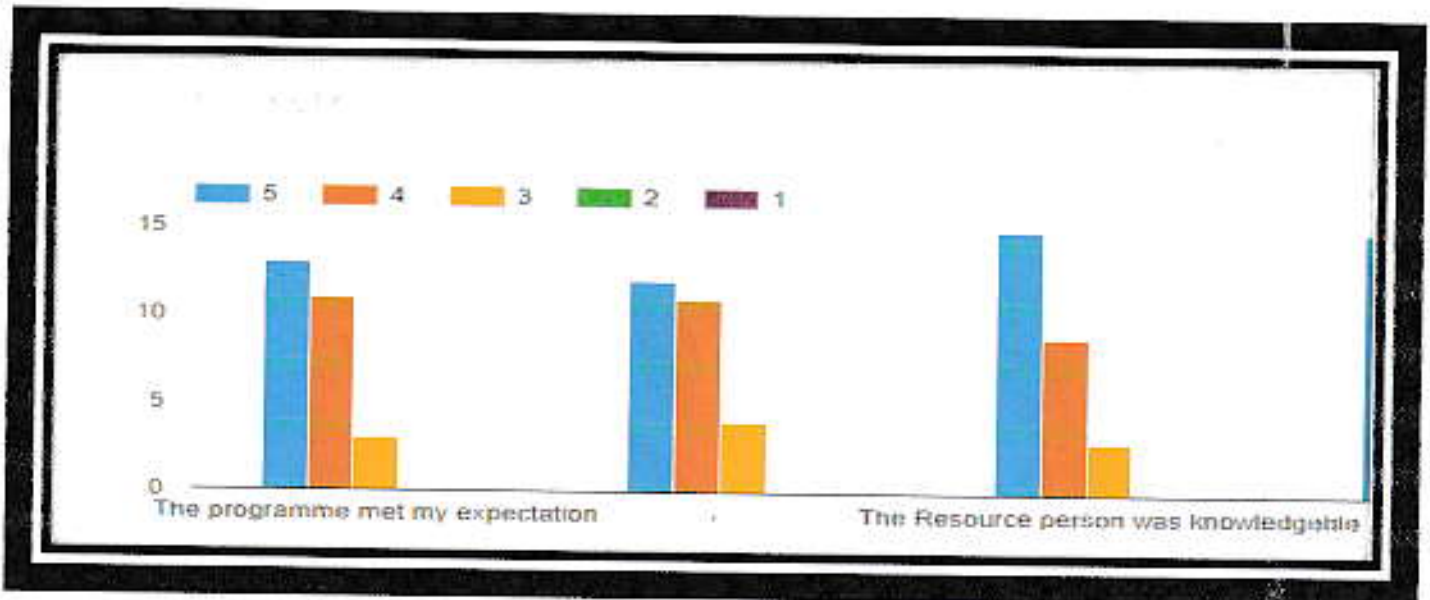
← July 19, 2022
11:28 | Teams

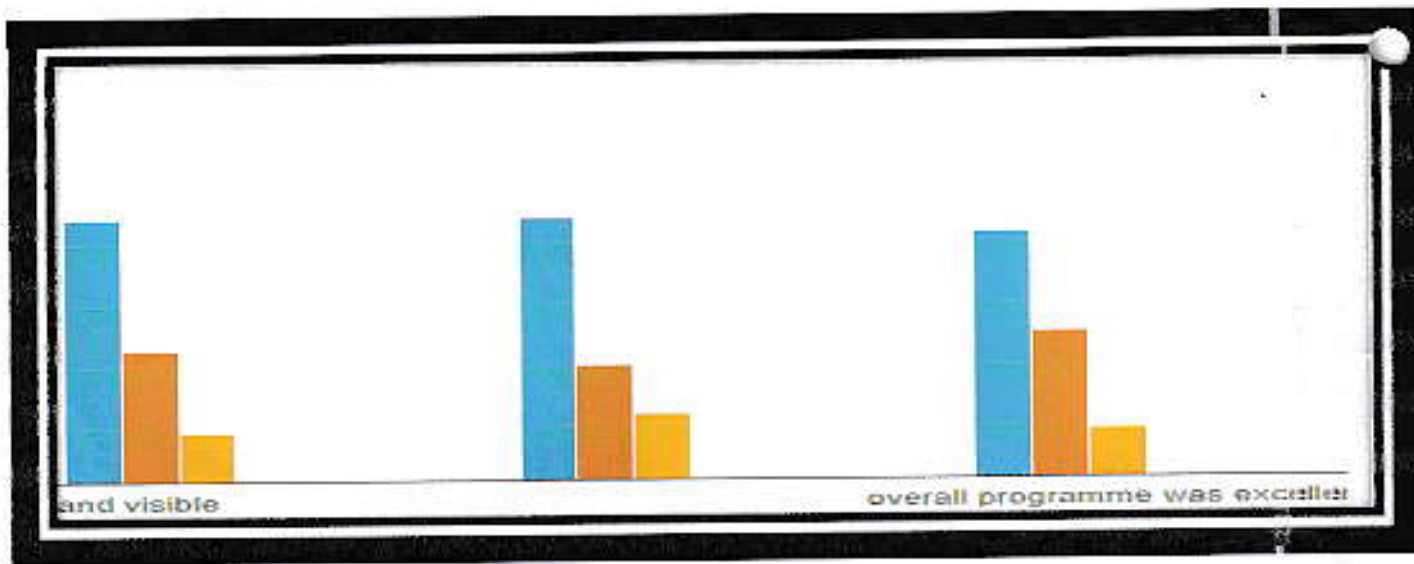
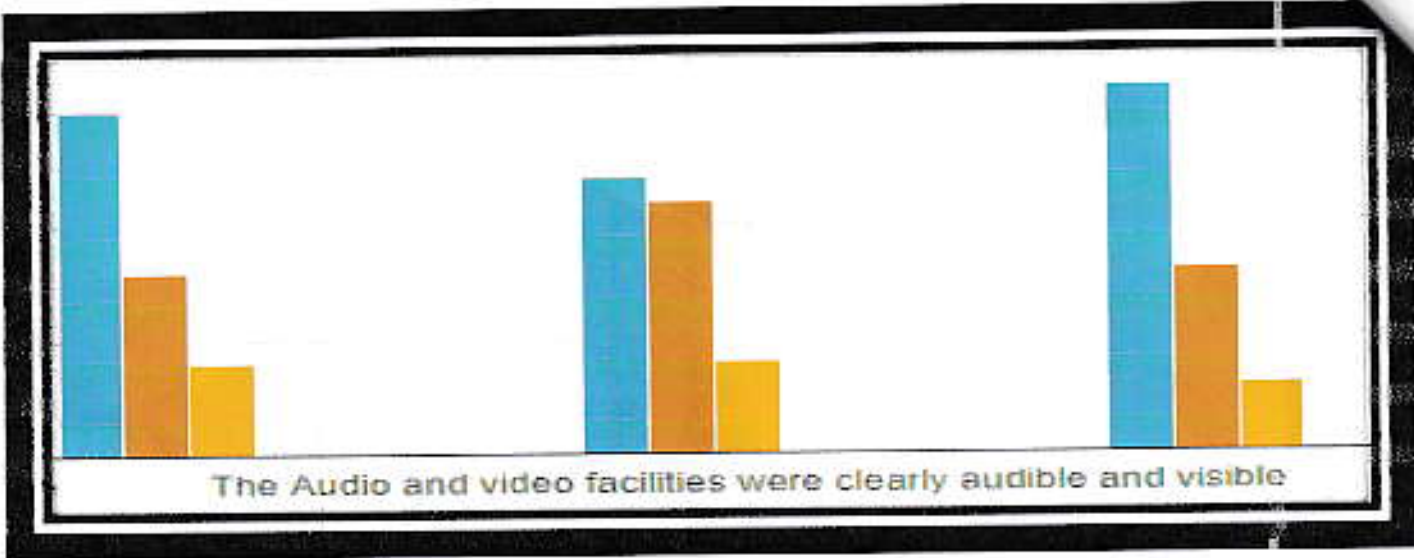
PJ	Pradeesha J (Guest)(Guest)	☑	☑
PM	PRIYADARSHINI M	☑	☑
R	Rekha (Guest)	☑	☑
CB	Revathi B, CSE (Guest)	☑	☑
SK	SAI KIRAN On hold	☑	☑
SK	Sampreeth Kavoor (Guest)(...	☑	☑
SN	Shivakumar Swamy N(Guest)	☑	☑
SN	shobha Rani nr(Guest)	☑	☑
SB	Shyamala P Bhat	☑	☑
SA	SOWMYA A(Guest)	☑	☑
SR	SRINIVAS K R (Guest)	☑	☑

← July 19, 2022
11:28 | Teams

CB	Revathi B, CSE (Guest)	☑	☑
SK	SAI KIRAN On hold	☑	☑
SK	Sampreeth Kavoor (Guest)(...	☑	☑
SN	Shivakumar Swamy N(Guest)	☑	☑
SN	shobha Rani nr(Guest)	☑	☑
SB	Shyamala P Bhat	☑	☑
SA	SOWMYA A(Guest)	☑	☑
SR	SRINIVAS K R (Guest)(Guest)	☑	☑
SV	Sunanda C V	☑	☑
SK	SUSHMA R K(Guest)	☑	☑
SB	Swetha K B(Guest)	☑	☑

Feed Back Analysis





Signature of Coordinators

Signature of Principal

PRINCIPAL
R.R. Institute of Technology
Bangalore-560 090

ATTENDANCE RECORD - 2022

NCID | Nodal Centre: RR Institute of Technology

Workshop Date: 19.07.2022

Workshop Type: online (Microsoft Teams)

S. No.	Roll No.	Name	Department
01	IRI20ME003	BASITH ALI L	Mechanical Engineering
02	IRI20ME004	MAHESH KUMAR MAHATO	Mechanical Engineering
03	IRI20ME005	MIDHUN T S	Mechanical Engineering
04	IRI20ME006	NABEEL S	Mechanical Engineering
05	IRI20ME007	RISHWIN ANTONY	Mechanical Engineering
06	IRI20ME008	ROHAN L G	Mechanical Engineering
07	IRI20ME009	RUDRA DINESHBHAI PATEL	Mechanical Engineering
08	IRI20ME010	TARIF ANSARI	Mechanical Engineering
09	IRI20ME011	VARSHITH M	Mechanical Engineering
10	IRI20ME012	FEBIN MATHEW VARGHESE	Mechanical Engineering
11	IRI21ME400	ABHISHEK KUMAR THAKUR	Mechanical Engineering
12	IRI21ME401	RAKESH M	Mechanical Engineering
13	IRI21ME402	SANJAY D	Mechanical Engineering
14	IRI21ME403	SHREYANK V PATEL	Mechanical Engineering
15	IRI21ME404	SUKANTO BISWAS	Mechanical Engineering
16	IRI20IS006	AKASH HALDER	Information Science
17	IRI20IS007	AKSHAY SRIVASTAVA	Information Science
18	IRI20IS008	AMIT KUMAR SAH	Information Science
19	IRI20IS009	ANSIF MUHAMMED	Information Science
20	IRI20IS010	ARBAZ N R	Information Science
21	IRI20IS011	BASANT KUMAR SAH	Information Science
22	IRI20IS012	BATHALA VAMSI	Information Science
23	IRI20IS013	BHARGAVI N	Information Science
24	IRI20IS014	BINDUSHREE M N	Information Science
25	IRI20IS015	CHANDRA DEEP GUPTA	Information Science
26	IRI20IS016	JOB DAYANAND D	Information Science
27	IRI20IS017	DAMINI R S	Information Science
28	IRI20IS021	ESLIN JAFFY E	Information Science
29	IRI20IS022	GAVIREDDY GARI BHARATHI KUMAR	Information Science
30	IRI20IS023	HAMSAVENI K B	Information Science
31	IRI20IS025	K PREETHAM RANGA	Information Science
32	IRI20IS026	KRITHIKA A HEGDE	Information Science

33	IRI20IS028	MUHAMED SAHAD T N	Information Science
34	IRI20IS030	NITIN PRIYADARSHI	Information Science
35	IRI20IS031	PRATHIKSHA R	Information Science
36	IRI20IS032	PRUTHIVIRAJ M	Information Science
37	IRI20IS033	RANJITH V	Information Science
38	IRI20IS034	RIYADH MOHAMMED SAGEER HASAN	Information Science
39	IRI20IS035	SANTU PAL	Information Science
40	IRI20IS036	SHAMANTH N	Information Science
41	IRI20IS037	SHRAVANASHREE K N	Information Science
42	IRI20IS038	SONIA WILLIAM	Information Science
43	IRI20EC001	ABHISHEK M	Electronics and Communication
44	IRI20EC002	ANN MARY K B	Electronics and Communication
45	IRI20EC003	BATTA GIRI GANESH	Electronics and Communication
46	IRI20EC004	BHIMAVARAM VINOD	Electronics and Communication
47	IRI20EC005	CHITHIRA A M	Electronics and Communication
48	IRI20EC006	JEEVAN D	Electronics and Communication
49	IRI20EC007	MANOHAR JOSHI NANDIBEVR	Electronics and Communication
50	IRI20EC008	NIKETAN	Electronics and Communication
51	IRI20EC009	PAPASANI VENKATA HEMANTH REDDY	Electronics and Communication
52	IRI20EC010	PURROLLA NAVEEN KUMAR	Electronics and Communication
53	IRI20EC011	PYDALA ANJALI	Electronics and Communication
54	IRI20EC012	SAHANA ITHLI	Electronics and Communication
55	IRI20EC013	SAVALAM NAVEENA	Electronics and Communication
56	IRI20EC014	SINCHANA R	Electronics and Communication
57	IRI21EC400	ANISA ZAHOOR	Electronics and Communication
58	IRI21EC401	KAMBALA HARI PRIYA	Electronics and Communication
59	IRI21EC402	RAHUL P H	Electronics and Communication
60	IRI20CS007	ANAND RAJ	Computer science
61	IRI20CS008	ANANYA E	Computer science
62	IRI20CS009	ANKIT DHALA SAMANTA	Computer science
63	IRI20CS010	ASHWATH REDDY S	Computer science
64	IRI20CS011	AYAN KUMAR JANA	Computer science
65	IRI20CS012	BASANTA PAL	Computer science
66	IRI20CS013	BHAGYAREKHA S	Computer science
67	IRI20CS014	BIRBAL	Computer science
68	IRI20CS015	DEEPAK R	Computer science
69	IRI20CS016	HARSHITHA K	Computer science
70	IRI20CS017	HARSHITHA M	Computer science
71	IRI20CS018	HEMA G	Computer science
72	IRI19EE401	INDERNIL KAR	Electrical & Electronics
73	IRI20EE001	DIVYA S	Electrical & Electronics

74	IRI20EE002	GOKULNATH A P	Electrical & Electronics
75	IRI20EE003	NAVEEN G	Electrical & Electronics
76	IRI20EE004	VIDYA S PRASAD	Electrical & Electronics
77	IRI20EE005	ABINASH KUMAR	Electrical & Electronics
78	IRI20EE006	DEVPUKAR CHAUDHARY	Electrical & Electronics
79	IRI20EE007	DARSHAN GOWDA B K	Electrical & Electronics
80	IRI21EE400	GAGANA S	Electrical & Electronics
81	IRI21EE401	NANDINI T S	Electrical & Electronics
82	IRI21EE402	VADDE PAVAN	Electrical & Electronics
83	IRI21EE403	VINAYAK MISHRA	Electrical & Electronics
84	IRI20CV001	AMAN KUMAR PAJIYAR	Civil Engineering
85	IRI20CV002	AVISHEK KUMAR SAH	Civil Engineering
86	IRI20CV003	BHUWAN KHATRI	Civil Engineering
87	IRI20CV004	ELIYAS AHMAD MUSALMAN	Civil Engineering
88	IRI20CV005	GANGA RAM YADAV	Civil Engineering
89	IRI20CV006	HARSHITHA N	Civil Engineering
90	IRI20CV007	ISTIHAK MUSALMAN	Civil Engineering
91	IRI20CV008	NIRAJ KUMAR THAKUR BARHI	Civil Engineering
92	IRI20CV009	RAJ KAMAL CHAUDHARY	Civil Engineering
93	IRI20CV010	RAJ SINGH YADAV	Civil Engineering
94	IRI20CV011	RAVI KUMAR YADAV	Civil Engineering
95	IRI20CV012	ROHIT KUMAR JHA	Civil Engineering
96	IRI20CV013	SANJAY CHAUDHARY	Civil Engineering
97	IRI20CV014	SANJAY KUMAR MANDAL	Civil Engineering
98	IRI20CV015	SANTHOSH D	Civil Engineering
99	IRI20CV016	SHIVAM YADAV	Civil Engineering
100	IRI20CV017	SHYAM PRASAD YADAV	Civil Engineering
101	IRI20CV018	SUMAN KUMAR SAH	Civil Engineering
102	IRI20CV019	SUMAN KUMAR SAH	Civil Engineering
103	IRI20CV020	TABA DOPUM	Civil Engineering
104	IRI20CV021	TOM THOMAS	Civil Engineering
105	IRI20CV022	AAYUSH YONJAN	Civil Engineering
106	IRI20CV023	HARISH DEUBA	Civil Engineering
107	IRI20CV024	MOHAMMAD RAFIQUE	Civil Engineering
108	IRI20CV025	RAJ KUMAR YADAV	Civil Engineering
Faculties			
109	-	Mrs. Thejaswini D	Basic Sciences
110	-	Mrs. Shwetha K R	Basic Sciences
111	-	Mr. Ganesh Y S	Basic Sciences
112	-	Mrs. Bhargavi	Basic Sciences
113	-	Dr. Anitha R Shettar	Basic Sciences

114	-	Ms. Chamanthi S	Basic Sciences
115	-	Mrs. J Mary Mimicklin Rexella	Basic Sciences
116	-	Dr. Sowmya A	Basic Sciences
117	-	Dr. Sankara G	Civil Engineering
118	-	Mr. Abhishek M	Civil Engineering
119	-	Dr. Praseeda E	Civil Engineering
120	-	Sushma R K	Civil Engineering
122	-	Mr. Girish G	Civil Engineering
123	-	Ms. Meenakshi K S	Civil Engineering
124	-	Ms. Priyadarshini H P	Civil Engineering
125	-	Mrs. Gunasheela P	Civil Engineering
126	-	Mr. Ranganathan B A	Civil Engineering
127	-	Mrs. Shilpa B R	Civil Engineering
128	-	Ms. Aishwarya V	Civil Engineering
129	-	Mr. Jayadeep K S	Civil Engineering
130	-	Mr. Ravi Patil	Civil Engineering
131	-	Dr. Channabasavaraju S	Mechanical Engineering
132	-	Mr. Lohith Kumar KJ	Mechanical Engineering
133	-	Dr. Amarnath G	Mechanical Engineering
134	-	Dr. Suresha C N	Mechanical Engineering
135	-	Mr. Srinivas K R	Mechanical Engineering
136	-	Mrs. Swetha K B	Information Science
137	-	Mr. Emmanuel Rajarathnam	Information Science
138	-	Mr. Abhilash L Bhat	Information Science
139	-	Dr. Sunitha H D	Electronics and Communication
140	-	Mrs. Shyamala P	Electronics and Communication
141	-	Mrs. Anshu Deepak	Electronics and Communication
142	-	Mr. Mohan Kumar BN	Electronics and Communication
143	-	Mr. Chitharanjan Das V	Electronics and Communication
144	-	Dr. Shiyashankar	Electronics and Communication
145	-	Mr. Gowtham G	Electrical & Electronics
146	-	Mrs. Jhansi K	Electrical & Electronics
147	-	Mrs. Sunanda CV	Electrical & Electronics
148	-	Mr. Mallesha B Y	Electrical & Electronics
149	-	Mrs. Madhavi Dasari	Electrical & Electronics
150	-	Mr. Vyshnav B	Electrical & Electronics
151	-	Mrs. Sowmya G J	Electrical & Electronics
152	-	Mrs. Pradeesha J	Electrical & Electronics
153	-	Dr. Manjunath R Rajgopal	Computer science
154	-	Mrs. Lakshmi Devi H M	Computer science
155	-	Mr. Dhananjaya M K	Computer science

156	-	Dr. Shivakumarswamy N	Computer science
157	-	Mrs. Shruthi S	Computer science
158	-	Mr. Chandrashekar C M	Computer science
159	-	Mrs. Veena V	Computer science
160	-	Mrs. Shobharani N R	Computer science


Nodal Coordinator
Signature


Head of Institute / Principal
PRINCIPAL
Signature & Stamp
R.R. INSTITUTE OF TECHNOLOGY
Chikkabanavara, Bangalore - 560 090.

1. Scan and send the duly signed original SOFT COPY of the attendance to the Virtual Labs team.
2. Keep the HARD COPY with you in a Virtual Labs file for the record.



PKM Educational Trust

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Information Science & Engineering

Since 1993

Date:21/11/2022

Circular

We are happy to announce that the Department of Information Science and Engineering is organizing A Two Days Workshop On "Web Technologies for I T Industry" On 25th and 26th November 2022.

It is for V and VII semester ISE students of RRIT to make aware of the need for industry.

Resource Person Details:

Mr. Shashidhar M R
Software Developer
WaveAxis, Bangalore.

Organizing Committee:

Prof. Emmanuel R
Associate Professor, ISE Department

Dr. Naveen M,
Assistant Professor, ISE Department

Prof. Anil Kumar K
Assistant Professor, ISE Department

Prof. Abhilash G Bhat
Assistant Professor, ISE Department

HOD

Department of Information Science Engineering
R.R. Institute of Technology
Hesaraynata Main Road,
Chikkabanavara, Bangalore - 90.



Since 1993

PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabasavara, Bengaluru - 560 099

Department of Information Science & Engineering

Chief Patron

Sri. Y. Raja Reddy

Chairman, PKMET, Bengaluru

Patron

Sri. Kiran H. R.

Secretary, PKMET, Bengaluru

Sri. Arun H. R.

Director, PKMET, Bengaluru

Administrators

Prof. Maya Salimath G.

Director QAC - R. R. Institutions

Chair Person

Dr. Mahendra K. V.

Principal

RRIT, Bengaluru

Convener :

Dr. Erappa G

Professor & Head

Department of ISE

Organising Committee

Prof. Emmanuel R

Associate Professor, ISE Department

Dr. Naveen M

Assistant Professor, ISE Department

Prof. Anil Kumar K

Assistant Professor, ISE Department

Prof. Abhilash L Bhat

Assistant Professor, ISE Department

Cordially invites all Students for

A Two Days workshop

on

“Web Technologies for I T Industry”

on

25th and 26th November 2022

CHIEF GUEST

Dr. Mahendra K. V.

Principal

RRIT, Bengaluru

GUEST SPEAKERS

Mr. Shashidhar M R

Software Developer

WaveAxis

Bangalore

To be a premier globally recognized Institute with ensuring Academic Excellence, Innovation & Fostering
Research in the field of Engineering



Since 1993

PKM Educational Trust

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka
Accredited by NAAC with 'B+'
Raja Reddy Layout, Chaikabanavara, Bengaluru - 560 096

Department of Information Science & Engineering

Date: 12/12/2022

Report of a workshop on "Web Technologies for IT Industry" on 9th and 10th December 2022

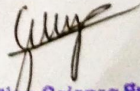
The department of Information Science and Engineering organized a Two days Workshop on "Web Technologies for IT Industry" on 9th and 10th December 2022. The purpose of this program is to impart the knowledge of various Web Technologies for IT industries. The event has begun at 10.30 AM, by welcoming the Management, QAC, IQAC, Principal, HOD of ISE, students and staff of RRIT and also by welcoming the resource person Mr. Shashidar M R, Software Developer by Prof Anil Kumar. This program began with building the skills and interests in understanding the Web Technologies.

Day1:

The workshop session started with introduction to "Web Applications". This session was handled by Mr. Shashidhar M R, Software Developer WaveAxis, Bengaluru, number of attendees were 83. The event started at 10.45 AM and ended at 4.45 PM. He has started session1 of the day with introduction of web applications and their types and has delivered importance of API programming, Tools used for API. In session2 he imparted the knowledge of HTML and CSS with hands on experiences to students.

Day2:

The session of the day two started at 10.00 am and it was started by Mr. Shashidhar M R, he started session with introduction to ways of inserting CSS sheets and various properties with respect to CSS with hands on coding experiences. He explained work flow of real-time project and how to deploy project in real time. He concluded sessions with opportunities on Web Technology software development in IT industries.


HOD of Information Science Engineering
R. R. Institute of Technology
Hesaraynarte Main Road,
Chaikabanavara, Bangalore - 96



PKM Educational Trust ©

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Information Science & Engineering

Since 1993

Outcome of the event

As a result of this workshop, the participants have got in-depth knowledge of programming concepts such as HTML, CSS for web application design, and web application design tools, how to use testing tools for testing designed web applications, and deploy for real time operation. Students were able to understand work flow of real time application in industries. Students have developed web applications using HTML and CSS and tested using the testing tool.

Gallery of Work shop on Web Technologies for IT Industry”



Handwritten signature
 HOD of Information Science Engineering
 R.R. Institute of Technology
 Hesaraghatta Main Road
 Chikkabanavara, Bangalore 560



Since 1993

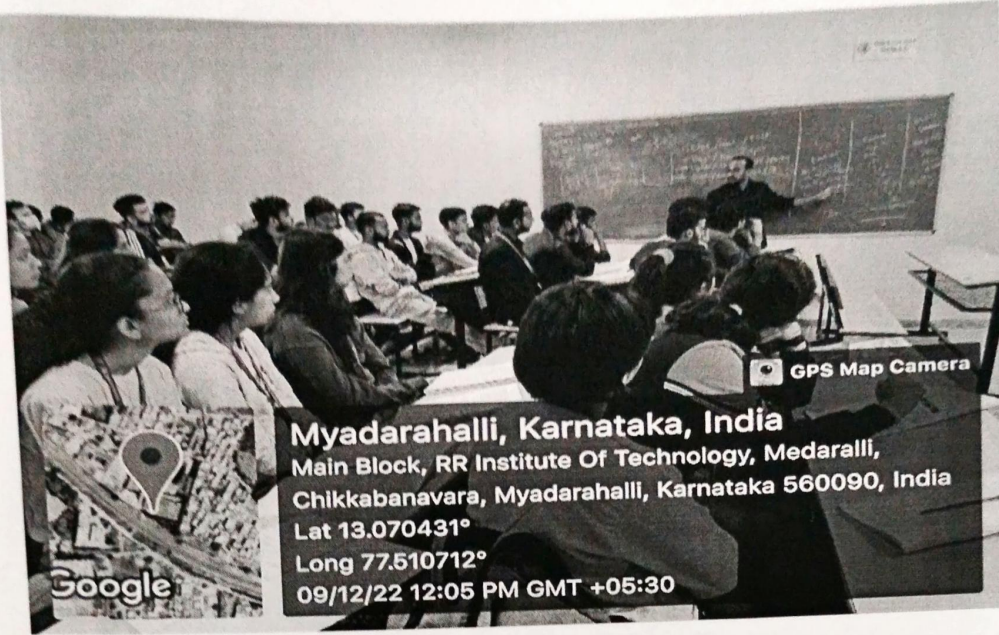
PKMEducational Trust

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Information Science & Engineering



GPS Map Camera

Myadarahalli, Karnataka, India
Main Block, RR Institute Of Technology, Medaralli,
Chikkabanavara, Myadarahalli, Karnataka 560090, India
Lat 13.070431°
Long 77.510712°
09/12/22 12:05 PM GMT +05:30

Google

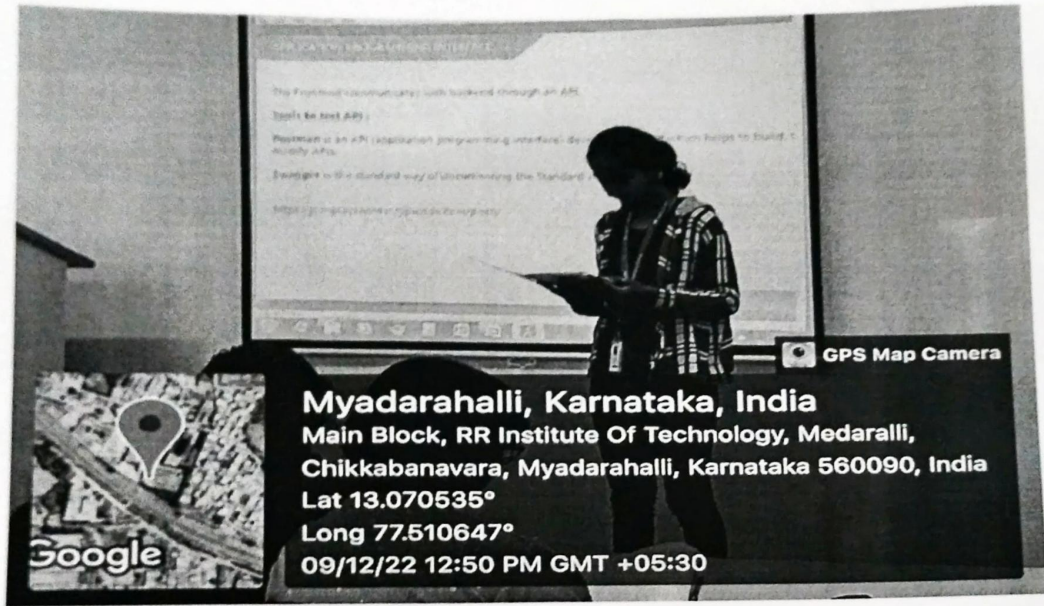


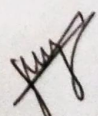
GPS Map Camera

Myadarahalli, Karnataka, India
Main Block, RR Institute Of Technology, Medaralli,
Chikkabanavara, Myadarahalli, Karnataka 560090, India
Lat 13.070563°
Long 77.510649°
09/12/22 12:42 PM GMT +05:30

Google

Jyoti
Head of Department Information Science Engineering
R.R. Institute of Technology
Hesaraghatta Main Road
Chikkabanavara, Bangalore 90.




 HOD of Information Science Engineering,
 R.R. Institute of Technology
 Hesarghatta Main Road
 Chikkabanavara, Bangalore 560



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,
Accredited by NAAC with 'B+'

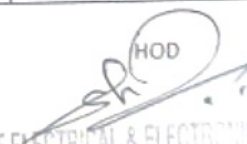
Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Electrical and Electronics Engineering

Consolidated List of Events

Event	Date of event	Title of event	Workshop/guest lecture
AY	2021-22		
1	13/11/2021 to 18/12/2021	Introduction to Java and its applications	Certificate program
2	22/12/2021 to 24/12/2021	Workshop on IOT & its Application	Hands on Workshop
3	10/06/22 to 11/06/22	Workshop on creative learning of digital system design using advanced CAD tool (Microwind Software)	Workshop
4	20-06-2022	Technical talk on 5G and thinking towards 6G & final year project demonstration	Technical Talk
5	21-06-2022	Industry awareness orientation seminar	Seminar
AY	2020-21		
1	23-12-2020	V2X: The future of vehicle communication	Seminar
2	23/11/2020 to 04/12/2020	Electrical services	Certificate program
3	18-11-2020	Electrical Safety	Awareness seminar

4	06-11-2020	Modelling and simulation of power systems	Seminar
5	28-05-2021	What industry is really expecting from students after employment?.	Guest Lecture
6	04-06-2021	Wide Area Monitoring System for Micro Grid Security	Guest Lecture
7	10-07-2021	Opportunity in IT Infrastructure Service	Guest Lecture
8	17-07-2021	Easy documentation, Execution & Presentation(PPT) using Jupyter notebook	Guest Lecture
AY	2019-20		
1	17-09-2019	Estimation costing and demand side management	Seminar
2	17-09-2019 to 21-09-2019	"PIC Microcontroller" in association with live wire	3 days Workshop
3	16-10-2019	Recent Trends in Technologies	Guest Lecture
	2018-19		
1	25/02/2019 to 27/02/2019	Auto CAD & 2D modeling	workshop
2	25-04-2018	Technical paper writing	seminar
3	14-05-2018	i3-influence,inspire & impact	seminar
4	27/09/2018 to 28/09/2018	circuit prototyping	2 day work shop
	2017-18		
1	1/02/2018 to 2/02/2018	Auto CAD & 2D modeling	work shop
2	22/03/2018 to 23/03/2018	fundamentals of image processing using MATLAB	SDP
3	7/09/2017 to 8/09/2017	MAT LAB & simulink	SDP


 HOD
 HOD OF ELECTRICAL & ELECTRONICS ENGINEERING
 R R Institute of Technology
 Hesarghatta Main Road
 Chikkabanavara, Bengaluru - 560090

-PKM Educational Trust ®



Since 1993

PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum
Approved by AICTE, New Delhi,
Recognized by Govt. of Karnataka
Accredited by NAAC with 'B+'
Raja Reddy Layout, Chikkabanavara,
Bengaluru – 560 090



ORGANIZING COMMITTEE

Chief Patron

Sri Y. Raja Reddy
Chairman, PKMET
Bengaluru

Patron

Sri Kiran H.R.
Secretary, PKMET
Bengaluru

Sri Arun H.R.
Director, PKMET
Bengaluru

Administrator

Prof. Maya Salimath G
Director
QAC- R. R. Institutions
Bengaluru

Chair Person

Dr. Mahendra K V
Principal- RRIT
Bengaluru

Convener

Dr. Sunitha H.D.
Professor & HOD
Dept of ECE & EEE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**Cordially invites all Staff &
Students for a
Guest Lecture**

"What industry

really expects from students after employment?"

On Friday, 28/05/2021, at 10.30 AM

via "Microsoft Teams"

GUEST SPEAKER

Muthukrishnan Hariram

Assistant Professor (Senior Grade)
Department of Information and Technology
at Kongu Engineering College,
Erode, Tamil Nadu.

Organising Committee Member

Prof. Pradeesha J
Assistant Professor, EEE

Student Members

Ruchitha S (4th Year)
Harshitha V S (3rd Year)

Registration link: <https://forms.gle/YdkPpaCo3kFu52bb6>



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Electrical and Electronics Engineering

Ref: RRII/EEE/2020-21/

Date: 31/05/2021

Report on Online Guest Lecture

The **Department of Electrical and Electronics Engineering** organized an online Guest Lecture on “**What industry really expects from the students after employment?**” on **28/05/2021** for the students of **4rd sem, 6th sem and 8th sem.**

RESOURCE PERSON:

Prof. Muthukrishnan H

Assistant Professor (Senior Grade)
Department of Information Technology
Kongu Engineering College
Erode-638060, Tamil Nadu.

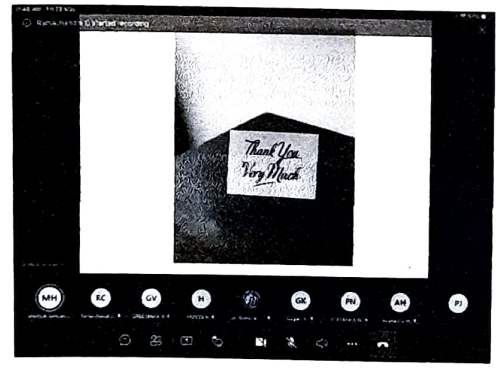
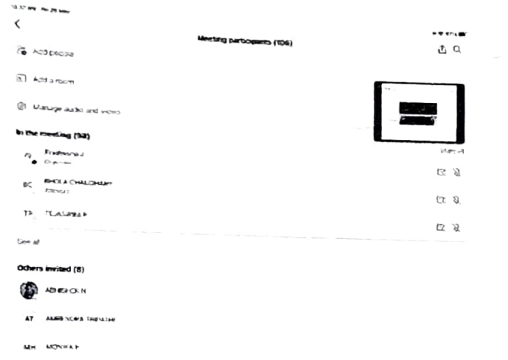
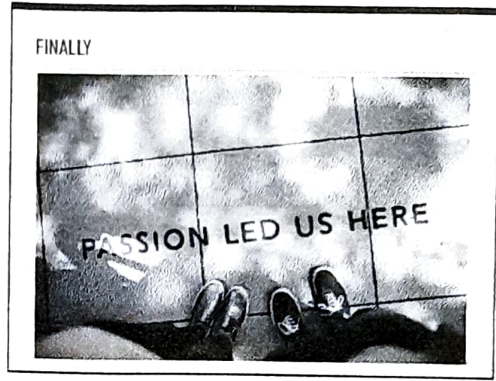
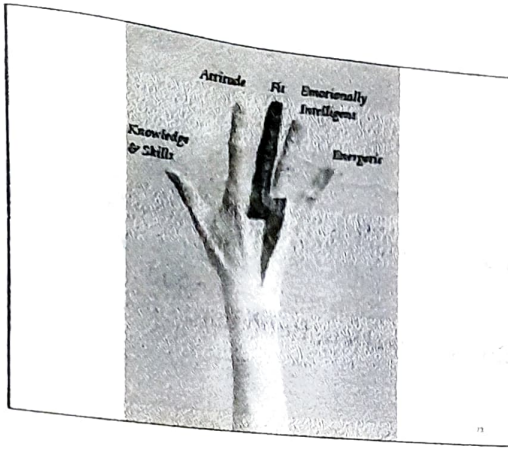
OBJECTIVE:

The online guest lecture was organized to give an idea to the students on how to upskill themselves perfectly for the expectation from the industry.

OUTCOME:

The following topics were explained by Prof. Muthukrishnan H:

- ✓ Types of industries.
- ✓ Industrial expectations such as communication skills, negotiation skills, Qualities of communication.
- ✓ Knowledge beyond text books, Critical thinking.
- ✓ Right understanding, right attitude and right skill.
- ✓ Being Optimistic.
- ✓ Economy and current situation.
- ✓ Other qualities such as tolerance, Adjustability, Understanding, being flexible, acceptance, controlling emotions and being active.



Prepared by

J. Pradeesha
31/05/2021
Prof. Pradeesha J
Assistant Professor
EEE, RRIT

Pradeesha

L. H. D. 31/05/2021
HOD OF ELECTRICAL & ELECTRONICS ENGINEERING
HOD-EEE
R R Institute of Technology
Hesaraghatta Main Road,
Chikkabanavara, Bengaluru - 560090.



PKM Education Trust®



R.R. INSTITUTE OF TECHNOLOGY

*Affiliated to VTU Belgaum, Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka, Accredited by NAAC 'B+'
Raja Reddy layout, Chikkabanavara, Bengaluru -90*

ORGANIZING COMMITTEE

Chief Patron:

Sri Y. Raja Reddy

Chairman, PKMET, Bengaluru.

Patrons:

Sri Kiran H.R.

Secretary, PKMET, Bengaluru.

Sri Arun H.R.

Director, PKMET, Bengaluru.

Administrator

Prof. Maya Salimath

Director, QAC, R.R. Institutions.

Chair Person

Dr. MAhendra K V

Principal, RRIT, Bengaluru.

Convener

Dr Sunitha H.D.

Professor & HOD-EEE.

Organizing Committee members

Prof. Sunanda C V

Assistant Professor, EEE

Prof. Ramachandra C

Assistant Professor, EEE

Students members

Ruchitha S, 8th sem

Gagan, 6th sem

Department of Electrical & Electronics Engineering

Cordially invites all staff & students for the

Guest Lecture On

“OPPORTUNITY IN IT INFRASTRUCTURE SERVICE”

On 10th July 2021 at 10:30AM

Venue: ONLINE

CHIEF GUEST

**Dr. Mahendra K V
Principal, RRIT**

Resource Person

**Mr. Naveen Chander C,
Alumini of EEE, RRIT**

Founder – 3Q Sutantra, Bengaluru

Founder/Edupreneur/Speaker

Registration link :<https://forms.gle/6t4HPN5um4mJT5Pb7>

For any queries Contact 8310924446



PKM Education Trust®

R.R. INSTITUTE OF TECHNOLOGY

Affiliated to VTU Belgaum, Approved by AICTE, New Delhi,
Recognised by Govt. of Karnataka, Accredited by NAAC 'B+'
Raja Reddy layout, Chikkabanavara, Bengaluru - 90

Department of Electrical & Electronics Engineering Organizing

CET CODE: E172

COMED-K CODE: E097

Guest Lecture

on



“Opportunity in IT Infrastructure Service”

Resource Person



Mr. Naveen Chander C
Founder - 3Q Sutantra, Bengaluru
Mentor | Edupreneur | Speaker

10th July 2021

10.30 am - 12.00 pm

Online Platform:



Program Coordinators

Prof. Ramachandra C,
Assistant Professor, EEE Department
Prof. Sunanda C V
Assistant Professor, EEE Department

Dr. Sunitha H D
HOD, EEE
(IN CHARGE)

Dr. Mahendra K V
Principal, RRIT

Registration link : <https://forms.gle/6t4HPN5um4mJT5Pb>



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi,
Recognized by Govt. of Karnataka
Accredited by NAAC with 'B+'
Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Electrical & Electronics Engineering

REPORT ON GUEST LECTURE

The Department of Electrical and Electronics Engineering organized a Seminar on "Opportunity in IT Infrastructure Service" on 10/07/2021 for the students of 4th sem, 6th sem and 8th sem.

RESOURCE PERSON:

Mr. Naveen Chander C
Alumini of EEE, RRIT
Founder - 3Q Sutantra, Bengaluru
Founder/Edupreneur/Speaker
Alumni of EEE department, RRIT

OBJECTIVE:

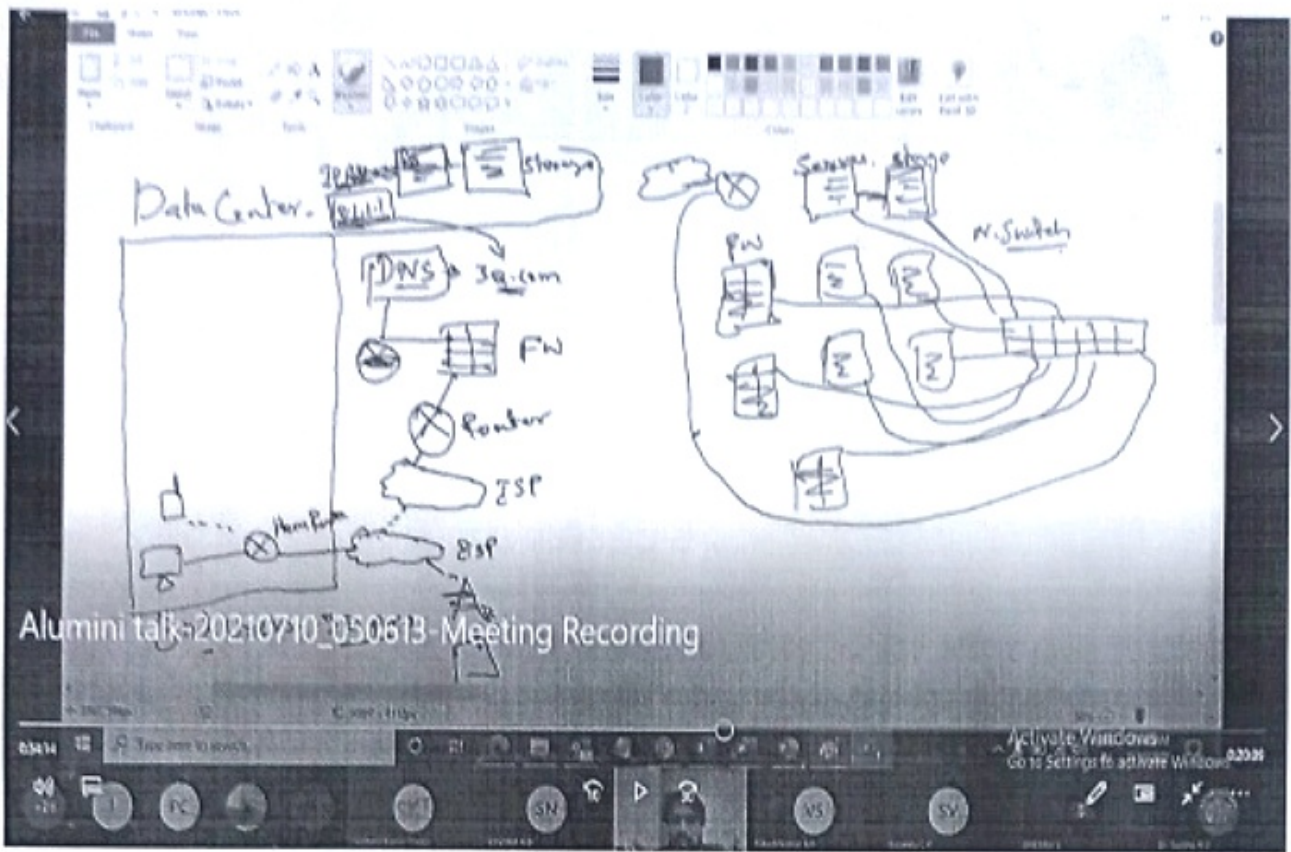
The online guest lecture was organized

- To give an idea to the students on how to upskill themselves.
- To improve communication skills.
- Opportunities available in IT sector.

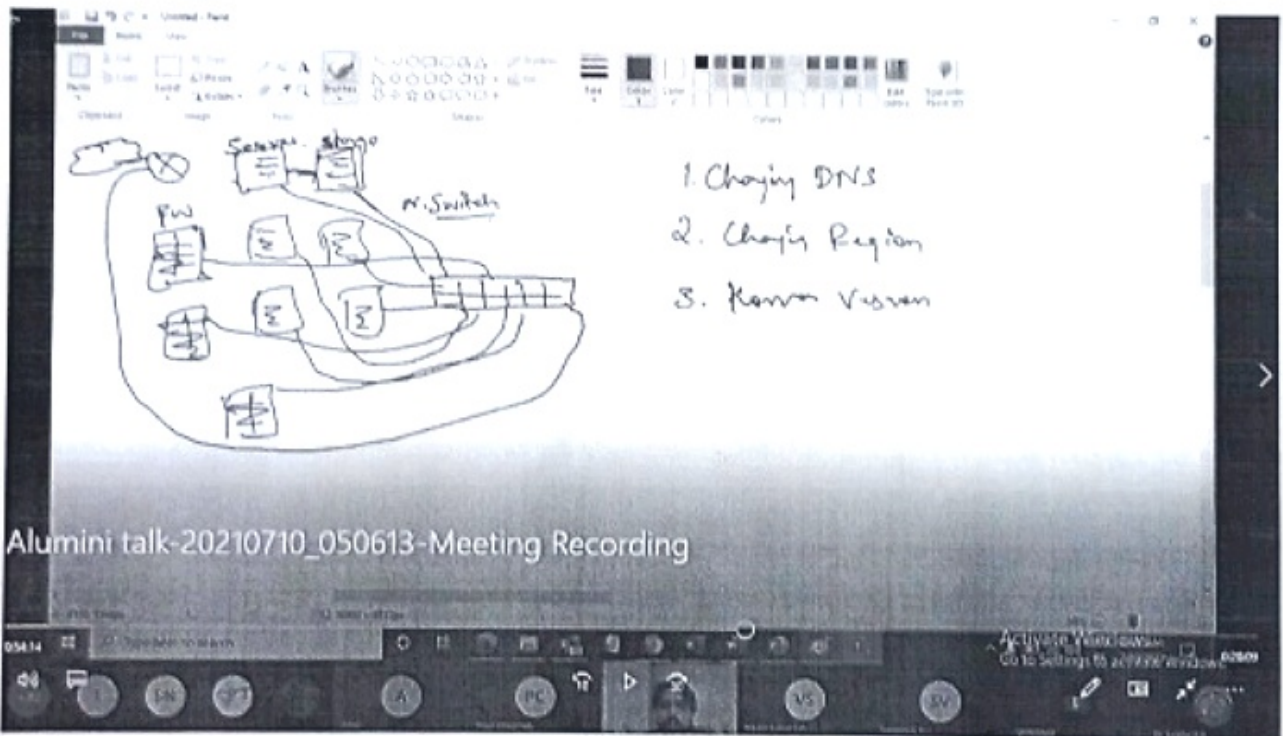
OUTCOME:

47 participants were benefited from the Guest Lecture. The students found the session very informative and suggested to conduct more events like this. The session has also received overwhelming response and impressive feedback from the students.

PHOTO GALLERY:



Alumini talk-20210710_050613-Meeting Recording



Alumini talk-20210710_050613-Meeting Recording

Handwritten signature

EEE-HOD
 HOD OF ELECTRICAL & ELECTRONICS ENGINEERING
 R R Institute of Technology
 Hesaraghatta Main Road,
 Chikkabanavara, Bengaluru - 660090



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi,

Recognized by Govt. of Karnataka

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Electrical & Electronics Engineering

Ref: RRIT/EEE/ /2020-21/

Date: 12/07/2021

List of participants for the online guest lecture on "Opportunity in IT Infrastructure Service"

Meeting
Summary
Total Number of
Participants 47
Meeting Title General
Meeting Start
Time 7/10/2021, 10:24:17 AM
Meeting End Time 7/10/2021, 11:51:28 AM

Full Name	Join Time	Leave Time	Duration	Email	Role
HARSHITHA	7/10/2021, 10:24:17 AM	7/10/2021, 11:49:33 AM	1h 25m	1RI16EE006@rrinstitutions.in	Presenter
Vikash Kumar Sah	7/10/2021, 10:24:43 AM	7/10/2021, 11:51:03 AM	1h 26m	1RI17EE016@rrinstitutions.in	Attendee
Dr. Sunitha H D	7/10/2021, 10:25:12 AM	7/10/2021, 11:49:52 AM	1h 24m	sunitha.rrit@rrinstitutions.in	Presenter
RAUSHAN KUMAR	7/10/2021, 10:26:14 AM	7/10/2021, 11:49:45 AM	1h 23m	1RI19EE006@rrinstitutions.in	Presenter
1RI17EE005	7/10/2021, 10:26:14 AM	7/10/2021, 11:51:02 AM	1h 24m	1RI17EE005@rrinstitutions.in	Presenter
Pradeesha J	7/10/2021, 10:27:00 AM	7/10/2021, 11:50:02 AM	1h 23m	pradeeshaj.rrit@rrinstitutions.in	Presenter
Md. Shafiullah M	7/10/2021, 10:27:06 AM	7/10/2021, 11:39:37 AM	1h 12m	1RI18EE010@rrinstitutions.in	Presenter
Sikindra Kumar Thakur	7/10/2021, 10:27:29 AM	7/10/2021, 11:49:49 AM	1h 22m	1RI17EE013@rrinstitutions.in	Presenter
Sunanda C V	7/10/2021, 10:28:01 AM	7/10/2021, 11:51:28 AM	1h 23m	sunanda.rrit@rrinstitutions.in	Organizer

Ramachandra C	7/10/2021, 10:28:48 AM	7/10/2021, 11:50:50 AM	1h 22m	ramachandrac.rrit@rrinstitutions.in	Present er
Akash Kumar Singh	7/10/2021, 10:28:52 AM	7/10/2021, 11:49:43 AM	1h 20m	1RI18EE001@rrinstitutions.in	Present er
Misba Falak	7/10/2021, 10:29:06 AM	7/10/2021, 11:49:54 AM	1h 20m 28m	1RI16EE009@rrinstitutions.in	Present er
UJJAL SARKAR	7/10/2021, 10:29:17 AM	7/10/2021, 10:57:32 AM	15s	1RI19EE012@rrinstitutions.in	Present er
Vyshnav B FIRDOUSH ANSARI	7/10/2021, 10:29:28 AM	7/10/2021, 10:41:21 AM	11m 53s	vyshnavb.rrit@rrinstitutions.in	Present er
SAUVIK GHOSH Mangala Gowri S G	7/10/2021, 10:29:52 AM	7/10/2021, 11:50:05 AM	1h 20m	20EE006@rrinstitutions.in	Present er
SAUVIK GHOSH Mangala Gowri S G	7/10/2021, 10:29:55 AM	7/10/2021, 11:27:57 AM	58m 2s	1RI18EE401@rrinstitutions.in mangalagowri.rrit@rrinstitutions.in	Present er
SUSHMA M N	7/10/2021, 10:29:55 AM	7/10/2021, 11:50:05 AM	1h 20m	.in	Present er
SUSHMA M N	7/10/2021, 10:30:02 AM	7/10/2021, 11:49:45 AM	1h 19m	1RI16EE019@rrinstitutions.in	Present er
RUPESH KUMAR	7/10/2021, 10:30:25 AM	7/10/2021, 11:49:52 AM	1h 19m	1RI19EE007@rrinstitutions.in	Present er
Bharath Kumar	7/10/2021, 10:30:48 AM	7/10/2021, 11:51:00 AM	1h 20m	1RI18EE004@rrinstitutions.in	Present er
Shifanaaz A	7/10/2021, 10:31:00 AM	7/10/2021, 11:51:13 AM	1h 20m	1RI16EE016@rrinstitutions.in	Present er
Varun K	7/10/2021, 10:31:01 AM	7/10/2021, 11:51:20 AM	1h 20m	1RI17EE015@rrinstitutions.in	Present er
Akshatha R Hegde	7/10/2021, 10:31:17 AM	7/10/2021, 11:11:34 AM	40m 17s	akshatharhegde.rrit@rrinstitutions.in	Present er
Bharath K L Naveen Chander C	7/10/2021, 10:31:30 AM	7/10/2021, 11:49:57 AM	1h 18m	1RI16EE004@rrinstitutions.in	Present er
Gagan Kumar	7/10/2021, 10:31:45 AM	7/10/2021, 11:49:40 AM	1h 17m	naveen.chanderc@concentrix.com	Present er
AFSAL AFSAL	7/10/2021, 10:31:46 AM	7/10/2021, 11:49:55 AM	1h 18m 13m	1RI18EE007@rrinstitutions.in	Present er
AFSAL AFSAL	7/10/2021, 10:31:51 AM	7/10/2021, 10:45:14 AM	23s	20EE007@rrinstitutions.in	Present er
Gowtham G BHOLA CHAUDHARY	7/10/2021, 10:31:57 AM	7/10/2021, 11:49:55 AM	1h 17m	gowtham.rrit@rrinstitutions.in	Present er
DHEERAJ K	7/10/2021, 10:32:46 AM	7/10/2021, 11:49:49 AM	1h 17m	1RI19EE001@rrinstitutions.in	Present er
Pratik Chaudhary Tashi Wangyal Bhutia	7/10/2021, 10:33:32 AM	7/10/2021, 11:49:32 AM	1h 15m	1RI19EE004@rrinstitutions.in	Present er
Pratik Chaudhary Tashi Wangyal Bhutia	7/10/2021, 10:33:48 AM	7/10/2021, 11:49:57 AM	1h 16m 29m	1RI17EE007@rrinstitutions.in	Present er
BHANUPRIYA Shovanand Choudry	7/10/2021, 10:33:52 AM	7/10/2021, 11:03:25 AM	32s	1RI17EE014@rrinstitutions.in	Present er
BHANUPRIYA Shovanand Choudry	7/10/2021, 10:34:01 AM	7/10/2021, 11:50:52 AM	1h 16m 41m	1RI17EE004@rrinstitutions.in	Present er
BHANUPRIYA Shovanand Choudry	7/10/2021, 10:34:16 AM	7/10/2021, 11:15:28 AM	12s	1RI17EE012@rrinstitutions.in	Present er

EMDORKA SYIEM	7/10/2021, 10:34:45 AM	7/10/2021, 11:50:54 AM	1h 16m	1RI19EE400@rrinstitutions.in	Present er
SNEHA JOESPHIN	7/10/2021, 10:35:51 AM	7/10/2021, 11:33:06 AM	57m	1RI19EE009@rrinstitutions.in	Present er
BHOOMIKA R	7/10/2021, 10:37:07 AM	7/10/2021, 11:49:55 AM	1h 12m	1RI19EE002@rrinstitutions.in	Present er
IMRAN ALAM	7/10/2021, 10:37:40 AM	7/10/2021, 11:50:02 AM	1h 12m	1RI18EE008@rrinstitutions.in	Present er
THEJASWINI B	7/10/2021, 10:37:51 AM	7/10/2021, 11:49:57 AM	1h 12m	1RI19EE011@rrinstitutions.in	Present er
Amit Kumar Singh	7/10/2021, 10:38:45 AM	7/10/2021, 10:42:18 AM	3m 32s	1RI18EE002@rrinstitutions.in	Present er
Rishig G N	7/10/2021, 10:41:30 AM	7/10/2021, 10:43:38 AM	2m 8s	1RI17EE009@rrinstitutions.in	Present er
SHANKAR KUMAR	7/10/2021, 10:46:41 AM	7/10/2021, 11:51:11 AM	1h 4m	1RI19EE008@rrinstitutions.in	Present er
Arfaat	7/10/2021, 10:50:44 AM	7/10/2021, 11:49:46 AM	59m 1s		Present er
PRATIBHA RAI	7/10/2021, 10:56:37 AM	7/10/2021, 11:49:47 AM	53m	1RI17CV036@rrinstitutions.in	Present er
Hemanjali R	7/10/2021, 11:18:59 AM	7/10/2021, 11:51:07 AM	32m 8s	1RI17EE006@rrinstitutions.in	Present er
ANIL KUMAR	7/10/2021, 11:29:17 AM	7/10/2021, 11:50:50 AM	21m		Present er
Girish G	7/10/2021, 11:31:00 AM	7/10/2021, 11:31:50 AM	33s	1RI16EE401@rrinstitutions.in	Present er
			50s	girish.rrit@rrinstitutions.in	Present er

Co-ordinators

Prof. Sunanda C V

Prof. Ramachandra C




f. Sunitha H D

HOD-EEE

(2/07/2021)

HOD OF ELECTRICAL & ELECTRONICS ENGINEERING

Dr. Sunitha H D

R R Institute of Technology

Hesaraghatta Main Road,

Chikkabhallara, Bengaluru - 560050.



Since 1993

Prepared By: Dr Anita R Shettar, Dr.Sowmya A B & Prof. Bhargavi

Date : 23/8/2022

Note: Answer any ONE question in each part.

Time: 30 min

Max.Marks : 20

19/20

NAME OF STUDENT : MOHAMMAD FAZRUZZAH

USN : 1R121CV029

SEM : II

SECTION: D

1	The Scherrer's equation is given by	ANS
	A $D = \beta \cos \theta / K \lambda$	C $D = K \lambda / \beta \cos \theta$
	B $D = K / \beta \cos \theta$	D $D = K \lambda / \beta \sin \theta$
2	XRD Works on the principle of	ANS
	A Wave nature of electrons	C Bragg's law of diffraction
	B Particle nature of electron	D Brewster's law
3	In XPS the kinetic energy of photoelectrons is given by	ANS
	A $K.E. = hv - (BE + \Phi)$	C $BE = K.E. - (hv + \Phi)$
	B $hv = K.E. - (BE + \Phi)$	D $K.E. = hv + (BE + \Phi)$
4	De- Broglie wavelength of electrons is given by	ANS
	A $1.226 / \sqrt{V} \text{ nm}$	C $1.226 / \sqrt{V} \text{ \AA}$
	B $122.26 / \sqrt{V} \text{ nm}$	D $12.26 / V \text{ nm}$
5	The function of magnetic objective lens in TEM is	ANS
	A To block high angle diffracted electron beam	C To allow high angle diffracted electron beam
	B To achieve magnification	D None of these
6	Radius of curvature of electron path in analyser of XPS depends on	ANS
	A Magnitude of electric field and kinetic energy of electron	C Only electric field
	B Only kinetic energy	D None of these
7	In Bragg's spectrometer, for every rotation Θ of the turn table, the ionization chamber turns by an angle	ANS
	A Θ	C 2Θ
	B 3Θ	D 4Θ
8	The inter-planar spacing in a crystal is 1 \AA and glancing angle is 35° . For a first order Bragg reflection to take place, the wavelength of X-ray is	ANS
	A 1.147 \AA	C 1.628 \AA
	B 0.573 \AA	D 0.819 \AA
9	According to experimental observation, the dependence of electrical conductivity on the temperature T is	ANS
	A $\sigma \propto T$	C $\sigma \propto \sqrt{T}$
	B $\sigma \propto 1/T$	D None of these

10	The principle used in working of SEM		ANS
	A Wave nature of electron ✓	C Compton effect ✓	
	B Particle nature of electron	D Photoelectric effect	
11	According to Max Born approximation $ \psi ^2$ represents		ANS
	A Particle density	C Charge density	
	B Energy density	D probability density ✓	
12	From Heisenberg 's uncertainty relation $\Delta L \Delta \theta \geq \frac{h}{4\pi}$, L refers to		ANS
	A Length	C Linear displacement	
	B Angular displacement	D Angular momentum ✓	
13	In a black body radiation spectrum , the Rayleigh-Jeans distribution law is applicable only for		ANS
	A Longer wavelength	C Entire wavelength	
	B Shorter wavelength ✓	D None of these	
14	The detectors used in SEM		ANS
	A BSE ,SE & X-ray detectors ✓	C Only BSE	
	B Only SE	D None of these	
15	Fermi energy is		ANS
	A The highest energy that free electron possess at T=OK ✓	C The lowest energy that free electron possess at T=OK	
	B The average energy that free electron possess at T=OK	D The average energy that orbital electron possess at T=OK	
16	Attenuation means		ANS
	A Amplification of signal strength	C Loss of signal strength ✓	
	B Devision of signal	D Tuning of signal	
17	The emission of photon without being aided by any external agency is called		ANS
	A Spontaneous emission ✓	C Induced absorption	
	B Light amplification	D Stimulated emission	
18	The ration of speed of the object to the speed of sound in the given medium		ANS
	A Magic number	C Wave number ✓	
	B Reynolds number	D Mach number ✓	
19	Supply of energy to atoms for excitation is called		ANS
	A Glowing	C Incidenting	
	B Pumping ✓	D Bombarding	
20	Two equal and opposite charges separated by small distance is called		ANS
	A Electric dipole ✓	C Dielectric	
	B Dipole moment	D Polarisation	



Since 1993

R. R. Institute of Technology

Department of Basic science

QUIZ ACTIVITY

17/20
Pass
11/1/22

28

Course Name: Engineering Chemistry

Course code : 21CHE12

Sections : D, E & F

Max. Marks: 20

Time: 1Hr

Date: 31/03/2022

Name of the student: SHIKHA MISHRA Adm.No: 21C1057 Section: E

Sl.No	Question	Answer
01	The internal reference electrode used in glass electrode is, (A) Platinum (B) Ag-AgCl electrode (C) Calomel electrode (D) Hydrogen electrode	(B)
02	The equilibrium constant K is related with free energy change ΔG using (A) Nernst eq (B) Poiseuille's eq (C) Vant Hoff's eq (D) Henderson-Hasselbalch	(C)
03	Membrane used in glass electrode is (A) Poly propylene (B) Silica gel (C) Poly ethylene (D) Cellulose membrane	(B)
04	Which chemical compound is called Calomel (A) Hg_2Cl_2 (B) $HgCl_2$ (C) $HgSO_4$ (D) HgO	(A)
05	Water line corrosion is an example for (A) Galvanic corrosion (B) Stress Corrosion (C) Differential Aeration corrosion (D) Intergranular Corrosion	(C)
06	Electrolyte used in Anodizing process is (A) Chromic acid (B) Phosphoric acid (C) Acetic Acid (D) Formic acid	(A)

07	Which of the following is used as flux in galvanisation process (A) NaNO_3 (B) Mg (C) ZnCl_2 (D) NH_4Cl	(D)
08	The reducing agent used in electroless plating of Cu (A) SnCl_2 (B) HCHO (C) FAS (D) NaPO_2H_2 <i>form</i>	(B)
09	A plastic which can be softened in heating and hardened on cooling is called, (A) Thermoplastic (B) Thermo setting plastic (C) Thermoelastic (D) None of these	(A)
10	Which form of Poly Aniline can be converted to conducting polymer (A) Leucoemeraldine (B) Pernigraniline (C) Emeraldine Base (D) None of these	(C)
11	What is the dimension of Fullerenes (A) Zero (B) One (C) Two (D) Three	(A)
12	The precursor used in Sol - Gel method is (A) Metal hydride (B) Metal acetate (C) Metal nitrates (D) Metal alkoxides	(D)
13	Hardness of water is expressed in terms of (A) $\text{Ca}(\text{NO}_3)_2$ (B) CaCl_2 (C) CaCO_3 (D) CaSO_4	(C)
14	The indicator used in COD experiment is (A) Ferroin (B) EBT (C) P&R (D) Starch	(A)
15	Which law correlates the concentration and absorbance (A) Lambert's Law (B) Beer's Law (C) Beer-Lambert's law (D) None of these	(C)
16	In Flame photometry concentration is related to (A) Absorption (B) Emission (C) Potential (D) Conductivity	(D)
17	The feedstock used for Paracetamol is (A) Benzene (B) Glucose (C) Toluene (D) Phenol	(B)
18	What is the K value in CPR formula when the result is expressed in mpy (A) 534 (B) 536 (C) 87.6 (D) 87.76	(A)
19	What is the colour of EDTA - Ca&Mg complex (A) Blue (B) Wine Red (C) Bluish Green (D) Colourless	(D)
20	What type of electrode is glass electrode (A) Reference ele. (B) Ion selective ele. (C) Inert ele. (D) Indicator ele.	(A)



Since 1993

R. R. Institute of Technology

Department of Basic science

QUIZ ACTIVITY

20
20
Full Marks

Course Name: Engineering Chemistry

Course code : 21CHE12

Sections : D, E & F

Max. Marks: 20

Time: 1Hr

Date: 31/03/2022

Name of the student: Md. Jamaluddin Hawari Adm.No: 21CI014 Section: F

Sl.No	Question	Answer
01	The internal reference electrode used in glass electrode is, (A) Platinum <input checked="" type="checkbox"/> (B) Ag-AgCl electrode (C) Calomel electrode (D) Hydrogen electrode	(B)
02	The equilibrium constant K is related with free energy change ΔG using (A) Nernst eq (B) Poiseuille's eq <input checked="" type="checkbox"/> (C) Vant Hoff's eq (D) Henderson-Hasselbalch	(C)
03	Membrane used in glass electrode is (A) Poly propylene <input checked="" type="checkbox"/> (B) Silica gel (C) Poly ethylene (D) Cellulose membrane	(B)
04	Which chemical compound is called Calomel <input checked="" type="checkbox"/> (A) Hg_2Cl_2 (B) $HgCl_2$ (C) $HgSO_4$ (D) HgO	(A)
05	Water line corrosion is an example for (A) Galvanic corrosion (B) Stress Corrosion <input checked="" type="checkbox"/> (C) Differential Aeration corrosion (D) Intergranular Corrosion	(C)
06	Electrolyte used in Anodizing process is <input checked="" type="checkbox"/> (A) Chromic acid (B) Phosphoric acid (C) Acetic Acid (D) Formic acid	(A)

07	Which of the following is used as flux in galvanisation process (A) NaNO_3 (B) MgSO_4 (C) ZnCl_2 (D) NH_4Cl	(D)
08	The reducing agent used in electroless plating of Cu (A) SnCl_2 (B) HCHO (C) FAS (D) NaPO_2H_2	(B)
09	A plastic which can be softened in heating and hardened on cooling is called, (A) Thermoplastic (B) Thermo setting plastic (C) Thermoelastic (D) None of these	(A)
10	Which form of Poly Aniline can be converted to conducting polymer (A) Leucoemeraldine (B) Pernigraniline (C) Emeraldine Base (D) None of these	(C)
11	What is the dimension of Fullerenes (A) Zero (B) One (C) Two (D) Three	(A)
12	The precursor used in Sol - Gel method is (A) Metal hydride (B) Metal acetate (C) Metal nitrates (D) Metal alkoxides	(D)
13	Hardness of water is expressed in terms of (A) $\text{Ca}(\text{NO}_3)_3$ (B) CaCl_2 (C) CaCO_3 (D) CaSO_4	(C)
14	The indicator used in COD experiment is (A) Ferroin (B) EBT (C) P&R (D) Starch	(A)
15	Which law correlates the concentration and absorbance (A) Lambert's Law (B) Beer's Law (C) Beer-Lambert's law (D) None of these	(B)
16	In Flame photometry concentration is related to (A) Absorption (B) Emission (C) Potential (D) Conductivity	(B)
17	The feedstock used for Paracetamol is (A) Benzene (B) Glucose (C) Toluene (D) Phenol	(D)
18	What is the K value in CPR formula when the result is expressed in mpy (A) 534 (B) 536 (C) 87.6 (D) 87.76	(A)
19	What is the colour of EDTA - Ca&Mg complex (A) Blue (B) Wine Red (C) Bluish Green (D) Colourless	(D)
20	What type of electrode is glass electrode (A) Reference ele. (B) Ion selective ele. (C) Inert ele. (D) Indicator ele.	(B)



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090


Mechanical Engineering

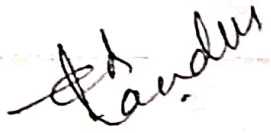
MINI PROJECT GROUP -6 SEM 2021-22

GROUP NO	USN	NAME	TEAM LEADER	GUIDE	PROJECT TITLE
Group-1	1RI20ME407	YASHWANTH K M	SHIVAM SINHA	Dr. Channabasavaraj	Benefits & Limitations of 3D printer a Case study
	1RI20ME405	SHIVAM SINHA			
	1RI18ME032	VITALA B A			
	1RI20ME400	IMAMSAB			
Group-2	1RI20ME401	NAVEEN K B	NAVEEN K B	Dr. Manjunatha G	Design & Modeling of Portable 3D Printer
	1RI20ME404	REVATI VENKATRAMANA TOREGAZANI			
	1RI20ME402	NIKHIL B G			
	1RI20ME406	THILAK G			
Group-3	1RI19ME002	AJAY HARI	AJAY HARI	Mr. Bharath K	Cost Estimation of Portable 3D Printer and identification of suitable material to reduce cost
	1RI19ME011	MIDHUN ABRAHAM			
	1RI19ME012	NIHMAN P			
Group-4	1RI19ME003	ALBI K MATHEWS	ABILASH MOHAN	Mr. Deepak A R	Study of 3D printer STL models, .GCODE models, and brief class on g-code language
	1RI17ME002	ABILASH MOHAN			
	1RI18ME002	AKASH K P			
Group-5	1RI19ME006	HASIBURAHMAN ANSARI	PRASHANT MISHRA	Mr. Srinivas K R	Fabrication of Portable 3D Printer using suitable Parts
	1RI19ME014	PRASHANT MISHRA			
	1RI19ME001	ABISHEK KUMAR SHAH			
	1RI19ME015	RANJAN L R			

Group-6	1RI19ME005	HARSHIND T	ASWIN K JAYADAS	Mr.Murali G E	Testing of Portable 3D Printer to study various parameters
	1RI19ME009	K ATHUL			
	1RI18ME006	ASWIN K JAYADAS			
Group-7	1RI18ME009	IZAZ KUPI	ARPIT SINGH	Mr.Lohithkumar J K	Design & Fabrication of Portable 3D Printer
	1RI18ME005	ARPIT SINGH			
	1RI20ME403	PRASANTA DAS			
	1RI19ME016	VISHAL KUMAR			
Group-8	1RI18ME016	MD MINHAZUL ISLAM	PRAJWAL G L	Dr. Amarnath	3D printing in the near future a Case study
	1RI19ME007	IMTHIYAS MOHAMMED			
	1RI18ME014	KOUSHIK KUMAR V			
	1RI19ME013	PRAJWAL G L			
Group-9	1RI18ME011	JAY SHRESTHA	GANESH PUN	Dr. Channabasavaraj	Study of Basic G-Code Language and 3D Printer Behavior
	1RI19ME004	GANESH PUN			
	1RI19ME010	MD OWAIS ANSARI			
	1RI19ME008	ISHTIYAQUE AHMED KHAN			


Project Coordinator


PRINCIPAL
R.R. INSTITUTE OF TECHNOLOGY
Hesaraghatta
Chikkabanavara, Bangalore - 90,


HOD
HOD of Mechanical Engineering
R.R. Institute of Technology
Hesaraghatta Main Road,
Ch. Chikkabanavara, Bangalore - 90



PKM Educational Trust

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Electronics & Communication Engineering

Date: 24-05-2022

Mini Project titles of Sixth semester for Academic Year 2021-22

Sl.No	USN	Names	Batch No	Titles of Mini Project	Project Guide with Signature	Signature of Students
1	IRI19EC002	Deep Shika Gupta	B1	Solar based energy efficient street lights	Prof. Shyamala P Bhat	Deep Shika Gupta
2	IRI19EC009	Monica S				
3	IRI19EC014	Sai Kiran G				Sai Kiran G
4	IRI19EC019	Varshitha K R				Varshitha
5	IRI19EC008	Mannur Penchala Narasimha	B2	Smart gardening and hydropower generation	Prof. Shadakshari Prsop. Anshu Deepak H.A. H/D	M. P. Narasimha
6	IRI19EC010	Nelapati Sumanth				Nelapati Sumanth
7	IRI19EC011	Pooja C				Pooja C
8	IRI19EC012	Priyadarshini M S				Priyadarshini M S
9	IRI19EC001	Abhishek N M	B3	Smart Reminder	Prof. B N Mohan Kumar	Abhishek N M
10	IRI19EC013	Renuka C				Renuka C
11	IRI19EC015	Shubhashree B				Shubhashree B
12	IRI19EC020	Vishnu K V				Vishnu K V
13	IRI19EC004	Diganta Halder	B4	Smart water management system	Prof. Mallesh B Y	Diganta Halder
14	IRI19EC007	Kavya H S				Kavya H S
15	IRI20EC400	Sajal Kanhaiya Jagtap				Sajal Kanhaiya Jagtap
16	IRI20EC401	Shika Kumari				Shika Kumari
17	IRI19EC003	Deepanjan Nath	B5	Army Safety Project	Prof. Shadakshari Prsop. Shyamala P. Bhat H.A. H/D	Deepanjan Nath
18	IRI19EC006	Jubin Sinha				Jubin Sinha
19	IRI19EC016	Srama Bhattacharya				Srama Bhattacharya
20	IRI19EC400	Madhukumar				

B. N. Mohan Kumar
Signature of Coordinator

Page 150 of 261
2) Mrs. Shyamala P. Bhat
H.A. H/D

HOD of Electronics & Communication Engineering
R.R. Institute of Technology
Signature of HOD

24/05/2022

GSM Based Monitoring and Alerting in Nebulization System For Asthma Patients

Likitha Varshini¹, Vijay M², Meghana M R³, Chaithra Shree M N⁴ and Prof. Abhilash L Bhat⁵

^{1,2,3,4} Student B. E, Department of Information Science and Engineering, R R Institute of Technology, Bangalore

⁵ Assistant Professor, Department of Information Science and Engineering, R R Institute of Technology, Bangalore

Abstract: *The Asthma Monitoring System is designed around a microcontroller for gathering, sending and receiving information from different sensors and external servers. The aim of this design is to provide an easier access to information and services, better patient healthcare services, transparent and efficient use of healthcare resources, and a fast response by the hospital in case of an asthma attack. Symptoms can be prevented by monitoring factors which can trigger asthma attack. So, as per requirement there should be a system which can monitor air parameter on regular basis and warn the patient when these factors can trigger an asthma attack. A portable system for non-invasive diagnosis of Broncho pulmonary diseases and continuous monitoring of the patient's condition is a combination of two compact modules radiating and receiving.*

Keywords: *Broncho-Pulmonary Disease, Non-Invasive, Portable*

1. INTRODUCTION

Internet of Things (IoT) which is a network based on the physical systems in which it can be exhibited in the form of a typical embedded system including electronic devices such as sensors. The connectivity of the network which can be enabled by these objects for exchanging and collecting data. Asthma could be a lifetime chronic disease initiating to abnormal respiratory organ functions and problem in breathing. Regarding 350 million individuals, that is comparable to one in every twelve adults, suffer from bronchial asthma worldwide. Self-monitoring is that the preliminary course of action to watch, treat and manage the chronic un-wellness.

Asthma is a common, chronic inflammatory disease of the airways that affects people of all ages and imposes a substantial burden on patients, their families, and the community. Bronchial asthma is one of the most severe Broncho pulmonary diseases affecting people of all age groups, including young children. Currently, more than 300 million cases of bronchial asthma of varying severity have been detected worldwide. In addition, there is a tendency to an increase in the number of patients with bronchial asthma, including young children. Therefore, the development of new methods and devices for the diagnosis of bronchial asthma, including inexpensive portable devices, is a very urgent task. Modern technologies are able to provide important tools for diagnosing a wide range of various diseases, including bronchial asthma. At present, one can find a tendency to actively introduce modern technologies, in particular, in the development of modern low-cost portable devices for diagnosing or monitoring human condition.

2. PROBLEM DEFINITION

Asthma, a chronic health condition prevalent in children can be characterized by breathlessness, chest tightness and coughing. An asthma attack can be triggered by a variety of factors including environmental conditions, intense physical activity, humidity and dust. In the United States, as of February 2010, 7 million children (10%) were reported to be suffering from asthma.

This condition is generally more prevalent among adolescents in the age group of 11-17. Due to the high prevalence of asthma in children and the difficulty involved in diagnosing the condition it becomes imperative to come up with technological solutions for continuous care and management of patients with this chronic disease.

3. RELATED WORK

[1] Authors suggested Asthma Academy for Developing Educational Technology to Improve Asthma Medication Adherence and Intervention Efficiency. Trying to develop a academy where patients can reach a particular place for the treatment of asthma.

[2] Author describes a prototype for asthma irritant monitoring system (AIM) that can be used by asthma patients. The AIM is a compact device that senses the environment around the patient for different irritants in order to detect any signs of asthma attacks or potentially unhealthy environments. Hence, asthma patients are able to know whether the environment around them is Healthy or not, allowing them to take appropriate action. In addition, the device offers the capability of sending the data to the physician to follow the patient case and a display indicating the environment condition around the patients.

[3] Author suggested paper which focuses on the design and development of a smartphone application. The application is currently a high-fidelity prototype designed and built using proto.io software. In addition to this conversion, the application incorporates aspects of the Internet of Things (IoT) whereby real-time data regarding environmental triggers such as temperature, humidity and pollen in surroundings, can be accessed from the application. The application ultimately aims to help asthmatics improve their health and quality of life by providing them, or their career with the knowledge needed to better understand and manage their asthma, when and where they need it.

[4] Author suggested paper in which the method and algorithm for remote monitoring of patients in asthma is discussed. The method includes a comprehensive evaluation of the results of standardized questionnaire about disease symptoms, changes in the bronchodilator intake regimen and data of functional test of respiratory systems state. To record tracheal sounds a lapel microphone placed at the mouth outside the exhaled airflow is used. The algorithm of processing and analysis of diagnostic data is described. The developed diagnostic algorithm proved its effectiveness in the long-term monitoring of a group of healthy individuals and patients in asthma

[5] Author suggested the prospects and possibilities for creating an individual wearable system for monitoring the condition of a patient suffering from bronchial asthma and preventing attacks of the disease are discussed. As the basic method of determining the condition of the patient is considered the technique for determining the transmission coefficient of a certain frequency microwave signal through the chest. The proposed method is non-invasive and harmless and can be used for patients of all age groups.

[6] Author suggested the aim of this study is to develop a system, which is based on a periodical data collected by the different sensors. There is no cure for asthma. Symptoms can be prevented by monitoring factors which can trigger asthma attack. So it is very much needed that there should be a system which can monitor air parameter on regular basis and warn the patient when these factor can trigger their asthma attack.

COMPONENTS & SPECIFICATIONS

HARDWARE REQUIREMENTS

Arduino UNO

Arduino Uno which is used for their research and project purposes as a microcontroller. The main component of this board can be said as the heart of the board which is microcontroller known to be Atmega 328 and next comes the series of 13 Digital pins.



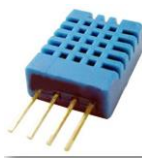
Heartbeat Sensor

The heartbeat sensor is based on the principle of photoplethysmography. It measures the change in volume of blood through any organ of the body which causes a change in the light intensity through that organ (avascular region). In the case of applications where the heart pulse rate is to be monitored, the timing of the pulses is more important.



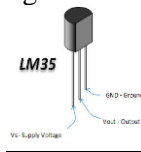
Humidity Sensor

This sensor includes a resistive-type humidity measurement component and an NTC temperature measurement component, and connects to a high performance 8-bit microcontroller, offering excellent quality, fast response, anti-interference ability and cost effectiveness.



Temperature Sensor

Temperature sensor that can be used to measure temperature with an electrical o/p comparative to the temperature (in °C). It can measure temperature more correctly compare with a thermistor. A temperature sensor is an electronic device that measures the temperature of its environment and converts the input data into electronic data to record, monitor, or signal temperature changes.



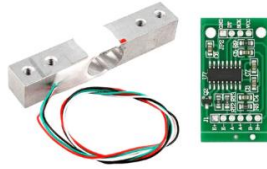
Air Quality Sensor

This sensor is responsible for detecting gases such as ammonia, alcohol, benzene, smoke and carbon dioxide, it has 2 outputs, one analog and one digital. They are commonly used to detect toxic or explosive gasses and measure gas concentration. Gas sensors are employed in factories and manufacturing facilities to identify gas leaks, and to detect smoke and carbon monoxide in homes. Gas sensors vary widely in size (portable and fixed), range, and sensing ability.



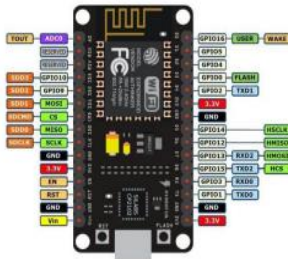
Loadcell

A load cell converts a force into an electrical signal that can be measured. The electrical signal changes proportionally to the force applied. A strain gauge is an electrical sensor that measures force or strain on an object. The resistance of the strain gauges varies when an external force is applied to an object, which results in a deformation of the object's shape (in this case, the metal bar). The strain gauge resistance is proportional to the load applied, which allows us to calculate the weight of objects.



ESP8266 WIFI Module

The ESP8266 WIFI Module is a self-contained SOC with integrated TCP/IP protocol stack that can give any microcontroller access to your WIFI network. The ESP8266 is capable of either hosting an application or offloading all WIFI networking functions from another application processor. In order to connect this WIFI module with Arduino, connect ESP8266 module transmit pin (TX) to the receive pin (RX) of Arduino Mega and to receive pin (RX) of USB to serial converter. The ESP8266 WIFI module comes with 17 GPIO pins. Not all GPIOs are exposed in all ESP8266 development boards, some GPIOs are not recommended to use, and others have very specific functions.



Power Supply Unit

A power supply unit (PSU) converts mains AC to low-voltage regulated DC power for the internal components of a computer. Modern personal computers universally use switched-mode power supplies. Some power supplies have a manual switch for selecting input voltage, while others automatically adapt to the mains voltage.



Accelerometer Sensor

Accelerometers are available as digital devices and analog devices. When applied to stress, these crystals generate a voltage which is interpreted to. Then this displacement value is used to measure the give the acceleration.



SOFTWARE REQUIREMENTS

Arduino IDE

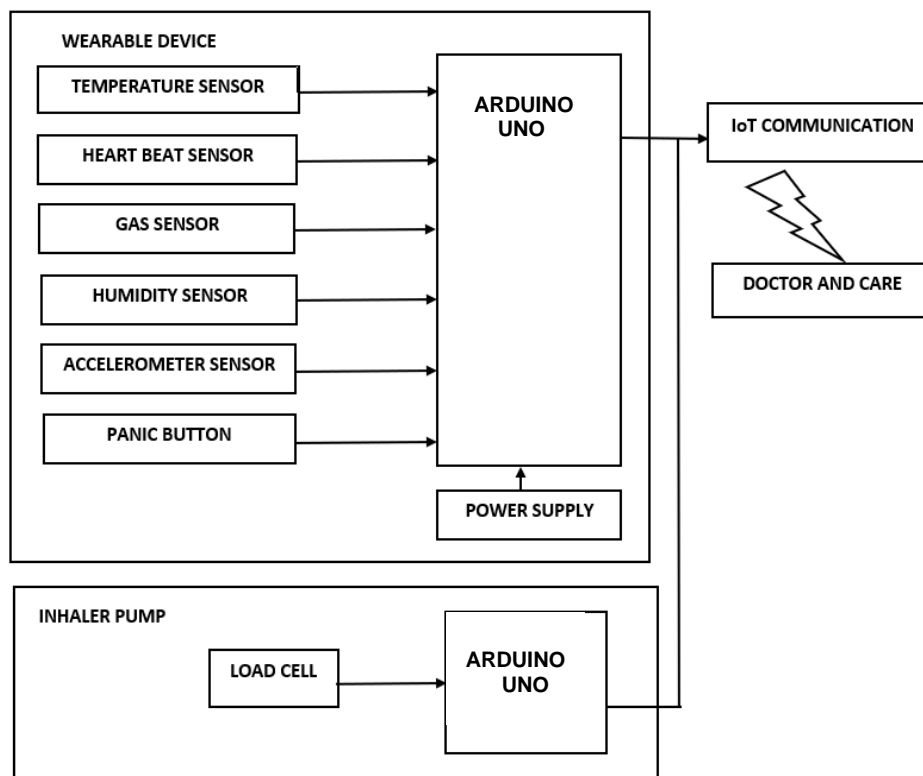
The Arduino Integrated Development Environment - or Arduino Software (IDE) - contains a text editor for writing code, a message area, a text console, a toolbar with buttons for common functions and a series of menus. It connects to the Arduino hardware to upload programs and communicate with them.



Embedded C

Embedded C is most popular programming language in software field for developing electronic gadgets. Each processor used in electronic system is associated with embedded software. Embedded C programming plays a key role in performing specific function by the processor. In day-to-day life we used many electronic devices such as mobile phone, washing machine, digital camera, etc. These all device working is based on microcontroller that are programmed by embedded C.

SYSTEM DESIGN



SYSTEM ARCHITECTURE

The input will be taken through the sensors which will be connected to the Arduino UNO and in contact with the asthma patient wrist.

The temperature sensor monitoring can be divided into 2 domains, the cold air and the hot air domain. During the cold air it is advised to avoid temperatures below 18°C as cold, dry air can narrow the airways. Temperatures below 15°C are considered risky.

During hot air domain it is advised to avoid temperatures above 27°C as hot air can irritate airways that are already narrowed. Heat and sunlight also can make pollution worse when they mix with chemicals in the air, creating smog. The temperature of 30°C and above is considered risky for an asthmatic patient. Hence the intimation will be will be popped up to avoid going in cold/warm temperature and thus alert will be sent in the form of buzzer alert.

Dry and humid air can cause bad flare-ups (coughing, vomiting etc.). Humidity also makes the air stagnant enough to trap pollutants and allergens like pollen, dust, mold, dust mites, and smoke. These can set off a patient's asthma symptoms. It is necessary to avoid surroundings below 40% humidity. Air as humid 60% becomes dangerous for an asthmatic patient. Hence if there is any type of wet condition(sweat) will be formed in the then there will be intimation in the form of buzzer alert. Air pollution comes from many different sources, some are man-made(perfumes) and some are naturally occurring. Air pollution includes gases, smoke from fires, volcanic ash and dust particles. Ozone triggers asthma because causes irritation to the lungs and airways. Some people may suffer from coughing, wheezing, chest tightness and shortness of breath, while others may have a different combination of the symptoms at different times. Thus the intimation will be sent to the patient if the surrounding gas which will cause allergy to the asthma patient will be recognized and when the gasvalue reaches 700 the buzzer will get started and alert will be popped.

The Heartbeat sensor is embedded to regularly check the heartbeat of the asthma patient to avoid the death of the asthma patient. The input will be taken from the sensor which is in contact with the wrist thus the heartbeat is sensed, if the heartbeat ranges more than 110beats/min there will be buzzer alert along with the heartrate reading displayed on the LCD.

Accelerometer sensor is used to detect in case of fall of the patient. The input will be taken from the accelerometer sensor. In case, there is fall of asthma patient the angle will be detected. If the angle will be ranging from 150degree or 30degree then the intimation will be sent to the guardian through the SMS along with the location of the patient to the guardian or caretaker. The location will be traced and tracked with the help of WIFI module.

The system proposed will also contain load cell to detect the level of medicine present inside the inhaler. If the medicine level reaches less than 25% then the intimation of refilling the medicine will be sent to the guardian.

In case if the inhaler is lost or misplaced within 200meter distance then the buzzer alert to the inhaler which will help to find the location of the inhaler within the precise distance and buzzer will be popped when clicked on the panic button.

RESULTS

This innovative has been working successfully since it was designed and programmed to the required standard. We have designed a wearable gadget, like a smart watch. This device will help in checking the patient health condition at any point of time like heartbeat, humidity, atmospheric harmful gas(perfume allergic gases to patient), pressure sensor, temperature sensor.

The intimation to the patient guardian in case of an asthma attack to the patient through the GSM module. The alert message will be sent to the guardian of the asthma patient through a text message along with the location in case of fall of the asthma patient. The design can estimate the level of the medicine inside the inhaler and gives the intimation when the level of the medicine reaches less than 25% to refill the medicine.

CONCLUSION

The project presented the design and architecture of a novel concept for Asthma patients Smart wearable gadget. This system can monitor the patient health condition at any point of time. The GPS based location tracking system will help user's friends/relative to find the location in case of any emergency. It may be improved further to have additional decision-making skills by using other types of sensors, and thus be used for a variety of applications. It may be assisted with image processing to make system more reliable in future.

FUTURE SCOPE

This research aims in improving accuracy by adding more sensor to detect the level of the medicine, detect the condition of the body of the patient. Many things can be implemented in the system for the tracking of the patient at any point of time.

Much higher capacity, higher configuration easily understandable sensors can be used (like raspberry pi) for capturing of images of the patient and high coverage.

REFERENCES

11.1. Journal Article

[1] Ivan V. Semernik, Alexander V. Dem'yanenko, "Prospects for Designing a Portable System for Monitoring of the Patient's Condition with Bronchial Asthma" ,2019 IEEE

[2] Nikita Isaac, Naveenaa Sampath, Valerie Gay, "Modernising Asthma Management: Personalised Asthma Action Plans Using a Smartphone Application",IEEE 2018

[3] E-J. Maalouf,A. Aoun, "Asthma Irritant Monitoring",2018 30th International Conference on Microelectronics (ICM)

[4] AHMED M. ELMISERY1, SEUNGMIN RHO2, AND DMITRI BOTVICH3 , "A Fog Based Middleware for Automated Compliance With OECD Privacy Principles in Internet of Healthcare Things" ,@2017 IEEE

[5] Javier Espina , Thomas Falck, Jens Muehlsteff, Yilin Jin, Miguel A. Adán , and Xavier Aubert , "Wearable Body Sensor Network towards Continuous Cuff-less Blood Pressure Monitoring" 2016 IEEE

[6] Javier Espina , Thomas Falck, Jens Muehlsteff, Yilin Jin, Miguel A. Adán , and Xavier Aubert , "Wearable Body Sensor Network towards Continuous Cuff-less Blood Pressure Monitoring" 978-1-4244-2253-1/08/\$25 ©2008 IEEE

[7] Sherin Sebastian, Neethu Rachel Jacob, Yedu Manmadhan, Anand V. R.,M.J. Jayashree "REMOTE PATIENT MONITORING SYSTEM" International Journal of Distributed and Parallel Systems (IJDPS) Vol.3, No.5, September 2016

[8] Panduranga H V D S Suresh Rajendra C J R Sekar "Interface Design for Multi Parameter Health Monitoring System Based on PLC" IJIRSET DOI:10.15680/IJIRSET.2015.0412068

Analyzing tweets for Real-Time Event Detection and Development of Earthquake Reporting System

^[1] Sumanth V, ^[2] Aman A. Saxena, ^[3] Jeevan B, ^[4] P. Vinay, ^[5] Vageesha N. J.

^[1] Assistant Professor, Dept. of CSE, RRIT, Bangalore

^[2]^[3]^[4]^[5] Dept. of CSE, RRIT, Bangalore

Abstract— Twitter, a popular micro blogging service, has received much attention recently. An important characteristic of Twitter is its real-time nature. For example, when an earthquake occurs, people make many Twitter posts (tweets) related to the earthquake, which enables detection of earthquake occurrence promptly, simply by observing the tweets. As described in this paper, we investigate the real-time interaction of events such as earthquakes, in Twitter, and propose an algorithm to monitor tweets and to detect a target event. To detect a target event, we devise a classifier of tweets based on features such as the keywords in a tweet, the number of words, and their context. Subsequently, we produce a probabilistic spatiotemporal model for the target event that can find the center and the trajectory of the event location. We consider each Twitter user as a sensor and apply Kalman filtering and particle filtering, which are widely used for location estimation in ubiquitous/pervasive computing. The particle filter works better than other compared methods in estimating the centers of earthquakes and the trajectories of typhoons. As an application, we construct an earthquake reporting system in Japan. Because of the numerous earthquakes and the large number of Twitter users throughout the country, we can detect an earthquake by monitoring tweets with high probability (96% of earthquakes of Japan Meteorological Agency (JMA) seismic intensity scale 3 or more are detected). Our system detects earthquakes promptly and sends e-mails to registered users. Notification is delivered much faster than the announcements that are broadcast by the JMA.

1. INTRODUCTION

Twitter, a popular microblogging service, has received much attention recently. It is an online social network used by millions of people around the world to stay connected to their friends, family members and co-workers through their computers and mobile phones [18]. Twitter asks one question, "What are you doing?" Answers must be fewer than 140 characters. A status update message, called a tweet, is often used as a message to friends and colleagues. A user can follow other users, and her followers can read her tweets, currently estimated as 44.5 million worldwide¹. Monthly growth of users has been 1382% year-on-year, which makes Twitter one of the fastest-growing sites in the world².

Some studies have investigated Twitter: Java et al. analyzed Twitter as early as 2007. They described the social network of Twitter users and investigated the motivation of Twitter users [13]. B. Huberman et al. analyzed more than 300 thousand users. They discovered that the relation between friends (defined as a person to whom a user has directed posts using an "@" symbol) is the key to understanding interaction in Twitter [11]. Recently, Boyd et al. investigated retweet activity, which is the Twitter equivalent of e-mail

forwarding, where users post messages originally posted by others [5]. brief text updates or micromedia such as photographs or audio clips. Microblogging services other than Twitter include Tumblr, Plurk, Emote.in, Squeelr, Jaiku, identi.ca, and so on³. They have their own characteristics. Some examples are the following: Squeelr adds geolocation and pictures to microblogging, and Plurk has a timeline view integrating video and picture sharing. Although our study is applicable to other microblogging services, in this study, we specifically examine Twitter because of its popularity and data volume. An important common characteristic among microblogging services is its real-time nature. Although blog users typically update their blogs once every several days, Twitter users write tweets several times in a single day. Users can know how other users are doing and often what they are thinking about now, users repeatedly return to the site and check to see what other people are doing. The large number of updates results in numerous reports related to events. They include social events such as parties, baseball games, and presidential campaigns. They also include disastrous events such as storm, fire, traffic jam, riots, heavy rainfall, and earthquakes. Actually, Twitter is used for various real-time notification such as that necessary for help during a large-scale fire

Eliminating Duplicate Data in Cloud Storage with Dynamic Ownership and Security

^[1] Dhananjaya M K, ^[2] Krishna Mohan Shah, ^[3] Gaurav Bhusal, ^[4] Kirti Lata, ^[5] J Meghana Patel
^[1] Assistant Professor, Dept. of CSE, RRIT, Bangalore
^[2]^[3]^[4]^[5] Dept. of CSE, RRIT, Bangalore

Abstract— Ever increasing volume of back up data in cloud storage may be a vital challenge. There is a need of data management as back up windows are shrinking due to growth of information. So, to make data management scalable deduplication concept is used. It is a technique of keeping only one unique instance of data copy by detecting identical data copies and eliminating those so that it could improve storage utilization, system performance of storage system. There are different schemes introduced by people. This paper surveys these different deduplication approaches.

Keywords: deduplication, convergent encryption, cloud storage, cryptographic.

I. INTRODUCTION

Cloud computing gives boundless virtualized plan of action to client as administrations over the entire web while concealing the stage and executing subtle elements. Today by increasing the volume of information in cloud storage created problem for duplicate data as data is collected from heterogeneous sources. Cloud storage is getting popular more and more as it is low cost and on-demand use of large storage. To make data management scalable in cloud computing, the deduplication concept is used. According to the analysis report of IDC, the volume of data in the world is expected to reach 40 trillion gigabytes in 2020 [1]. Today's commercial cloud storage services, such as Dropbox, Google Drive and Mozy, have been applying deduplication to save the network bandwidth and the storage cost with client-side deduplication. Deduplication means duplicate data is eliminated, a pointer is created to reference a data that is backed up. In order to have a secure storage of deduplicated data over a cloud computing we use the encryption/decryption technique. Deduplication can take place at 1) File level, in this it detects redundant data within the files or 2) Block level, in this it detects redundant data across the files and removes those data of identical data files. In file level deduplication, system first check within the files in storage for duplicates and if there is no duplicates in file then block level deduplication is done. It operates on basis of sub-file level in which check duplicates or identical data across the files. File is being broken into blocks or chunks or segments which are then compared to previously stored data. Before upload the data to the server user need to encrypt the data and then upload their data on to the cloud. Encryption is the

process of converting a plaintext into a ciphertext [2]. Traditional encryption is contradictory to deduplication as it requires different users to encrypt their data with their own keys. Convergent encryption is mainly used for the deduplication process [3]. To keep the confidentiality of sensitive data while supporting the deduplication, to encrypt the data before outsourcing convergent encryption technique has been proposed. Convergent encryption is well known concept. It checks the duplicate by tag value of data file produced by users. Proof of ownership protocol is executed to identify data copy owner that is which user owns the data file [7]. A number of deduplication systems have been proposed based on various deduplication strategies are explained in literature survey.

II. METHODS USED IN DEDUPLICATION

Following are the some basic methods used in deduplication:

A. Symmetric Encryption

Symmetric encryption uses a common secret key k to encrypt and decrypt information. A symmetric encryption scheme made up of three primary functions.

- 1) $KeyGenSE(1\lambda) \rightarrow K$ is the key generation algorithm that generates k using security parameter 1λ ;
- 2) $EncSE(k, M) \rightarrow C$: is the symmetric encryption algorithm that takes the secret K , and message M then outputs the ciphertext C ;
- 3) $C' \leftarrow ReEncrypt(C, G)$: The re-encryption algorithm is a randomized algorithm that takes a ciphertext C and an ownership group G , and outputs a re-encrypted ciphertext

Cloud-based Android Application with NFC for Remote access

Avinash Gaurav, Amit Kumar Sahni, Julius Daimary,

Dipendra Kumar Mahato

GUIDE: Ms NETHRA MVO

RR Institute Of Technology, VTU

ABSTRACT: This type of access to the clients can provide relief to the owner who is handling organisations at multiple location in order to handle the security of his firm from his phone or web application. However IOT has made it possible to handle the different functionalities of the sensors using this technology, but the technology we are using in this domain is NFC. Which allows the owner to give the access to the authorize client only who can use the service efficiently. This topic consist of a combination of both IOT and Artificial Intelligence. In this paper we introduce the suitable technology and ideas to be implemented for some of the startups and organisation that are going trending now. When it comes to staff hiring in a company it requires a lot of human resource to be implemented. The paper includes methodology used by SWIGGY, VOGO, NFC.

Keywords: NEAR FIELD COMMUNICATION, GPS, ARTIFICIAL INTELLIGENCE, IOT.

1. INTRODUCTION:

The topic chosen for the advancement of the various methodologies in the same paper. The paper focuses on implementation IOT, Artificial Intelligence and GPS methodologies in the same domain. The companies like SWIGGY, VOGO are using the technologies in which the control is in individual hand to operate the functionalities using IOT. We can implement this idea using NFC technology. We are trying to provide accessibility to the different user by the authorized person who is present in remote place. NFC allows the individual to access the service provided by the companies anywhere, anytime. As per statistics of the advancement in technology we found that we can make the efficiency of working of some sensors to the greater extent which is robust and reliable to use.

2. Methodology:

This paper includes the process of how the office can be managed from the remote place in order to make it more secure and reliable to use the application. The methodology introduced here will be reducing the labour cost and requires less human resource or negligible.

- **NFC (NEAR FIELD COMMUNICATION)**

NFC card for indicating each of them. To meet the user requirements, the proposed application consists of the main features i.e. online access of employees and managers, capability of using the existing NFC card and scanners, no limitation of employees, no limitation of data storing, and generating reports.

Smart Garbage Monitoring System using IoT

Mrs. Nethra M.V.O¹, V Joel², Rajat Gangwani³, Munshad Ali⁴

¹Assistant Professor, Computer Science Department, R.R. Institute of Technology, Bengaluru, India

^{2,3,4}UG Students, Computer Science Department, RR Institute of Technology, Bengaluru, India

ABSTRACT: As the world's population is growing at a fast pace, more and more waste is produced daily and waste management becomes a more crucial matter and concern. Most important is the collection of solid waste from city garbage bins. Inadequate or inefficient collection processes lead to undesirable and in some cases unsanitary conditions that pose a health risk to the surrounding communities. Such risks are presented in the form of overfilled garbage bins and foul odors. There is lack of planning, data on the collection, and poor infrastructure for the collection of waste and for the waste management. To provide solution to this Smart Garbage Monitoring System is proposed. The system will allow the authorities to better manage, plan, & utilize their resources for garbage collection also hygiene & cleanliness can be maintained.

Keywords: Internet of Things (IoT), Smart Garbage Collection, Waste Management.

I. INTRODUCTION

With the popularity of the Internet of things (IoT) growing, and the availability of low cost actuators and sensors, the approached method aims to monitor the bin whether it is full or half filled or empty and proposed method [1] will calculate the sensor levels in bin and data will be sent to the mobile application second to second. The first sensor will measure the level of waste in the dustbin located all over the city in different locations. The data collected by the sensor is then sent to Arduino and to the cloud, the output data i.e. the level of dustbin is then showed in the application when the end user logs into the application [2]. A notification pops up in the application whenever a dustbin of a particular location is full. An E-Mail is also sent to the end user stating, the dustbin is full. The second sensor measures the distance of hand of the person whenever a person comes near the dustbin to throw waste. If the distance of hand from the dustbin is less than 40cm then the servo will open the lid of the dustbin and when the distance of hand is more than 40cm then the dustbin's lid will close or will remain closed.

II. LITERATURE SURVEY

[1]The paper highlights that the collection, transport and disposal of solid waste, which is a highly visible and important municipal service, involves a large expenditure but receives, scant attention. This problem is even more crucial for large cities in developing countries due to the hot weather. A constructive heuristic which takes into account the environmental aspect as well as the cost is proposed to solve the routing aspect of garbage collection. This is based on a look-ahead strategy which is enhanced by two additional mechanisms. Interesting results were obtained when tested on instances with and without the presence of the effect of the environment.

[2]This study aimed to determine whether the waste management systems, that are presently applied in affluent countries are appropriate solutions for waste management in less developed regions. For this purpose, three

Blind navigation System using Hurdle Recognition

Ankita Shukla, Rahul M, Shwetha M, Sowmya M V, Prema C

Guide : Prema C, Asst.Prof.,Dept of CSE

RRInstitute of Technology ,VTU

ABSTRACT

Conventionally, visually impaired people use white cane or guide dog for travelling to desired destination. However, they could not identify their surrounding easily. In this paper we describe the development of navigation system which is applied to guide visually impaired people both indoor and outdoor environment. To provide an efficient navigation the navigation system is developed by using passive radio frequency identification (RFID) for indoor and object identification using Image Processing for outdoor environment. The navigation system is designed with voice commands which helps the visually impaired to have better experience, safer and comfortable travel. It also include a panic switch to alert the care taker if the individual is lost

Keywords: RFID, Image Processing, Object identification, Panic switch.

1.INTRODUCTION

First understand what blindness means to a person. Blindness can mean different for different blind people because few people are blind from birth and few loose their vision due to some diseases gradually at a later stage. A person who is blind from birth can see nothing not even black because they do not know what black is. All they see is abyss because they have not seen anything ever to have a knowledge of what anything is. Approximately there are about 38 millions of people around the world in developing countries who are blind and visually impaired, among

them over 15 million are from India. Blind people feel they are an outcast from the rest of the society, Because of this inferior feeling blind people are taken back from societal activities and their participation in sports academics is also very limited. As a result the percentage of blind people who are unemployed is around two thirds of working-age visually impaired folks according to 2006 statistics.[2].

This project describes the event of navigation system that is applied to guide the visually impaired individuals at an interior and out of doors surroundings. to produce associate economical and easy navigation tools, a navigation device is developed by exploitation passive frequency Identification (RFID) transponders that square measure mounted on the ground like on tactile paving to make like RFID Networks .The developed navigation system is provided with a digital compass to facilitate the visually impaired individuals to steer properly at right direction particularly once turning method. This project is useful to visually impaired individuals as a result of the navigation device designed with voice commands can help them to possess a much better expertise, safer and cozy travel. Object sensors square measure enclosed during this project to find any object that is on the means whereas navigating. the thing sleuthing unit is provided with the assistance of MATLAB for deciding the thing with the assistance of image process thought.

ONLINE VARIATIONAL INFERENCE FOR THE HIERARCHICAL TOPIC DETECTION FRAMEWORK

Sumanth V¹, Sathish P², Nikhil B K³, Varun Bharadwaj H R⁴, Srikanth B R⁵

^{1,2,3,4,5}Department of CSE, RRIT, (India)

ABSTRACT

Hierarchical topic detection model have achieved big success in detecting topics . previously developed models have some of the dis advantages such as most of the developed models run with less number of topics and the overlaps between the topics may enlarge in the evolving process. Hierarchical topic model is a candidate solution to these problems since it can reveal many useful relationships between the topics. These relationships can help to find high quality topics and reduce topic overlaps. In this paper, a knowledge-based semi supervised hierarchical online topic detection framework is proposed. The proposed framework can detect topics in an online hierarchical way. In addition, it has been proven that introducing external knowledge can improve the performance of text mining. Therefore, the knowledge from external knowledge sources and human experts are also integrated in the proposed framework. Experiments are conducted to evaluate the proposed framework with different metrics. The results show that compared with the baseline methods, our framework can achieve better performance with competitive time efficiency.

Keywords: Distance metric learning , Hierarchical matrix factorization , Latent Dirichlet Allocation , Online topic model.

I. INTRODUCTION

Data mining is the practice of automatically searching large stores of data to discover patterns and trends that go beyond simple analysis. Data mining uses sophisticated mathematical algorithms to segment the data and evaluate the probability of future events. Data mining is also known as Knowledge Discovery in Data (KDD). Data mining can answer questions that cannot be addressed through simple query and reporting techniques. Online text stream Topic Detection and Tracking with Semi-supervised Learning With the rapid growth of web data, a large amount of text streams are available online. However, how to organize them for facilitating users' experience and government supervision remains a problem yet to be seriously investigated. Topic detection and tracking, which has been a hot research topic for decades, could cluster web videos into different topics according to their semantic content. However, how to online discover topic and track them from web videos and images has not been fully

Comparative Performance of Machine Learning and Deep Learning Algorithms on Imbalanced Handwritten Data

Prof. Shruthi S¹, Baba Bharath G K², Vibha Reddy K V³,
Vinutha H⁴, Nagaraj T⁵

¹ Assistant Professor, Department of Computer Science and Engineering, RRIT (India)

^{2,3,4,5} UG Students, Department of Computer Science and Engineering, RRIT (India)

Abstract

Now the days Imbalanced data are one of main task in a classification by machine learning. Data missing produces missthe relevant relations between featuresoutput of a model regardless how recent the technology is. However, deep learning algorithms, such as deep belief networks showed well results in many cases, especially in image processing. So, in this paper, we review the data disparity in many cases using deep belief networks model and compare it with machine learning algorithms, within help of MNIST handwritten dataset. Here it shows stable and suitable for multiple cases, the imbalanced data still managed by effect of the outcome of the conventional algorithms of machine learning.

Keywords—Deep belief networks, support vector machine, back propagation neural networks, imbalanced handwritten data, classification.

1. INTRODUCTION

Imbalanced classes in a samples occurs when the sample dataset is not in the same of values among the parameters. The major class of the sample was when the class has the most instances. The minor class of the dataset was when the class has the least instances. An imbalanced class data in a classification are takes the over fitting class model and wrongly classified. Over fitting is a result of accuracy produces miss the relevant relations due to overwhelming values in one class compared to missing data of another class. This model might be give a high accurate result, but it is classified into many overwhelming class.

This approach will be focused on this paper is a review on missing values and effects of disparity class in a handwritten sample through the deep learning and machine learning algorithms. Deep learning is a part of machine learning algorithms that are recently introduced to solve complex, high-level abstract and heterogeneous datasets, especially image and audio data. There are several types of deep learning architectures, which are deep neural network (DNN), convolutional Neural Network (CNN), deep belief networks (DBN) and convolutional deep belief networks (CDBN). In this paper, we will focus on two deep learning algorithms, which are CNN and DBN. CNN is composed of one or more convolutional layers with fully connected layers at the end of it. A deep belief network (DBN) is a probabilistic, generative model made up of multiple layers of hidden units. It can be seen as a composition of simple learning modules of Restricted Boltzmann Machine (RBM) that make up each layer. Then some machine learning algorithms such as back propagation neural

SpideRR-COLLEGE NETWORKING APPLICATION

Mrs. Jyothi R¹, Mr. Krishna Rajbanshi², Mr. Milan Shrestha³,

Mr. Prakash Rayamajhi⁴ and Mr. Raghav Kattel⁵

¹Assistant Professor, Department of Computer Science & Engineering, RRIT, Bangalore

^{2,3,4,5} Department of Computer Science & Engineering, RRIT, Bangalore

ABSTRACT

SpideRR-College Networking Application is both website as well as mobile application development project. Currently, in our college, R.R.I.T there is no networking website or application exist which will connect students as well as teachers. Now-a-days it's an important to have such connections between students as well as teacher. This project has a user-Friendly interface for both android app as well as the website and requires human interaction. This project will have different functionalities like login, signup, different view for students and admin, post, creating projects, students can mention their problems using forum help, HODs can publish notice to their particular department, chat system within project members, etc. we are trying include all the courses available in RRIT like Engineering, Nursing, Pharmacy, Diploma, Management, etc.

Keywords: *Networking, Mobile Application*

1. INTRODUCTION

About our networking System-SpideRR

College Networking is both website as well as mobile app development project. Currently, in our college, R.R.I.T there is no networking website or application exist which will connect students as well as teachers. Now-a-days its an important thing to have such connections between students as well as teacher.

This project is user-Friendly and requires human interaction. This project will have different functionalities like login, signup, different view for students and HODs, post, like, comment, creating events, students can mention their problems, HODs can publish notice to their particular department, student review, chat system, etc. we are trying include all the courses available in RRIT like Engineering, Nursing, Pharmacy, Diploma, Management, etc. We will need college API for this project to validate a student so that no unauthorized students can use college networking.

We have many existing Networking system the communication, the following contains some information of these systems

1.1 Firebase

Firestore evolved from Evolve, a prior startup founded by James Tamplin and Andrew Lee in 2011. Evolve provided developers an API that enables the integration of online chat functionality into their websites. After releasing the chat service, Tamplin and Lee found that it was being used to pass application data that weren't chat messages. Developers were using Evolve to sync application data such as game state in real time across

AUTONOMOUS VEHICLE WITH TRAFFIC DENSITY AVOIDANCE AND LIVE VIDEO STREAMING USING ARTIFICIAL INTELLIGENCE WITH EMBEDDED C

Dr.arpada Sharma¹, Smriti Ghimire², Tanaya Patra³,

Yojana Aryal⁴, Dhananjaya M.K⁵

^{1,2,3,4} BE Students & ⁵ Guide, R R Institute Of Technology, Bangalore, India

ABSTRACT

Autonomous car is the newest Technology. In driver based car there are more human error which causes the more amount of accident rates so this concept helps to decrease the human error which lead to accidents.

Keywords: sensors, transmitter, receiver

I. INTRODUCTION

The autonomous car is one step towards smart city and is applicable for all the handicap people especially blind people and is suitable for all day to day transport activities. The motive behind the whole concept of the driverless car was to avoid accidents that take place now days in large numbers.

Fuel conservation can be done at maximum by efficient driving techniques and speed limits. Strict obedience of traffic rules especially in India as many of the human drivers ignore and neglect the traffic rules such as not following of traffic signal lights, improper lane keeping, not following of speed limits especially in city areas, blowing horns in horn restricted areas such as near educational institutes and organizations etc. Efficient use of parking space can be achieved using autonomous cars as they include automated parking algorithms and sensors to avoid collision with other parked vehicles which will in turn increase space for parking. There is an increased demand for these cars in India itself. This is due to the careless

attitude of drivers (in the city, as well as on highways and mountain passing).

II. PROBLEM STATEMENT

The purpose of this project is the creation of an autonomous car which should be able to drive automatically without any driver in the urban areas by following the Road traffic rules with live video streaming along with zonal speed control.

III. PROPOSED SYSTEM

- Here we design a system that overcomes the drawbacks of all the aforementioned systems.
- Our main focus was on Following Vehicle, which detects and avoids obstacles, coordinate with live video streaming, and follow the route.
- For another application, it checks vehicles around and automatically moves slowly behind the traffic until it gets out of traffic jam situation.
- When the vehicle enters in the normal area it speed does not decrease and it goes normally no action is performed. When the vehicle enters into the restricted areas that means it enters into the speed limiting.
- Whenever it enters the transmitter module just send an information that contains how much speed a vehicle can go inside the speed limited region. Then the signal or information is

Generic Application for Sensors Application Using IOT

Dr. S. Saravanan¹, Biwas Subedi², Rupesh Timalisina³

Archan Bhatta⁴, Salim M. Gumbo⁵

^{1,2,3,4,5} CSE, RR Institute of Technology, (India)

ABSTRACT

IOT is the network of physical devices connected and controlled using smartphones via Internet. In our proposed system "Generic Application for Sensor Application using IOT" helps to fetch the data of the sensors to the mobile application which is connected through the Wi-Fi. Sensor value are stored in Arduino. Arduino consist of the Wi-Fi module which helps Arduino to connect with Wi-Fi. The mobile application that is connected with the same Wi-Fi then the data is fetched. This proposed system will be done with the android studio for application development while C++ programming will be used for the Arduino coding. This proposed system is proposed to help different government organization that helps in different testing like water purity, soil moisture, temperature. It can be used by normal people for different propose. This proposed system is forwarded to demolish the traditional way of testing or manual way of testing.

Keywords—Arduino, Internet of things, Mobile Application, Sensors, Wi-Fi.

1. Introduction

The future of our internet is Internet of things (IOT) where all devices are connected to the Internet. And all the physical devices can be controlled through the internet. Internet of things can be foreseen to be – a worldwide network of interconnected object uniquely addressable, based on standard communication protocols [1]. Identified by a unique address, anyObject including computers, sensors, RFID tags or mobile phones will be able to dynamically join the network, collaborate and cooperate efficiently to achieve different tasks. Including WSNs in such a scenario will open new perspectives. Covering a wide application field, WSNs can play an important role by collecting surrounding context and environment information. Key enablers for the IoT paradigm are: RFID and WSN. RFID is well known and established for low-cost identification and tracking. WSNs bring IoT applications richer capabilities for both sensing and actuation. In fact, WSN solutions already cover a very broad range of applications, and research and technology advances continuously expand their application field. However, the sheer diversity of WSN applications makes increasingly difficult to define-typical requirement for their use in IOT [2].

The IoT allows objects to sense or control remotely around the existing network infrastructure and creates an opportunity for direct integration of physical world into computer based systems, and results in improving the efficiency, accuracy and economic benefits to reduce human intervention.[3]The revolutionary advances of Internet of Things (IoT) devices and applications have helped IoT emerge as an increasingly important domain for user development (I:UD). [4]

A Modern Real Time Water Quality Monitoring System Using IOT

Dr. S Saravanan

Professor, Department of CSE, R R Institute of Technology, Bangalore, India

Hemalatha C

Department of CSE, R R Institute of Technology, Bangalore, India

Ashwini Shridhar Deshpande

Department of CSE, R R Institute of Technology, Bangalore, India

Mary Roopini A

Department of CSE, R R Institute of Technology, Bangalore, India

Gayathri H D

Department of CSE, R R Institute of Technology, Bangalore, India

ABSTRACT: Now-a-day, water pollution is one of the biggest fears for the green globalization. Water is used in various activities, such as consumption, agriculture and industry, which may affect water quality. Therefore, the water quality monitoring is necessary which includes several chemical parameters. Some of these are: pH, redox potential, conductivity, dissolved oxygen, ammonium and chloride ion amount. There is a need to improve existing system for monitoring water bodies, given that laboratory methods are too slow to develop an operational response and does not provide a level of public health protection in real time. Due to the vast increase in global industrial output, rural to urban drift and the over-utilization of land and sea resources, the quality of water available to people has deteriorated greatly. To increase the water quality, first we have to estimate the water parameters like pH, turbidity and temperature as the variations in the values of these parameters point towards the presence of pollutants. The water quality measuring system that we implement checks the quality of water in real time through various sensors (one for each parameter: pH, conductivity, temperature, turbidity). The Wi-Fi module in the system transfers the data collected by the sensors to the microcontroller and transfers the data to the smart phone/PC. This system can keep a strict check on the pollution of the water resources and be able to provide an environment for safe drinking water.

Keywords — Redox potential, Turbidity, Microcontroller, Deteriorated, Pollutants.

I. INTRODUCTION

Globalization has been adversely effecting the environment through the challenges such as deforestation, climate change, pollution, bio-diversity loss and water resources. Globalization is theoretically refers to a complex process that includes political, economic and sociocultural changes. The rapid changes implemented in the manufacturing and the agricultural trends are immensely influencing water use as well as wastewater production patterns and the potential implications of these trends on the water quality. Various pollutants generated as byproducts in the production of plastics, synthetics, pesticides, detergents, pulp and paper, and other materials has posed a threat to water-quality and is conceivably a human health hazard if not regulated and managed properly. The continued growth of large-scale, corporate agriculture has implied to an extensive use of pesticides and fertilizers. The production levels of toxic wastes also are a concern to environmental quality, particularly as trade in toxic wastes increases. Hence the use of a system to independently measure the constituents of the water is essential.

II. MOTIVATION

Water is an indispensable source for the existence and survival of the life on earth. With the huge advancements of civilizations, water has found in the large and progressive increasing

30

An Effective Big Data Framework based on Farmer's Agricultural Context

Prof. Manjunath R¹, Bindu S², HariKireeti B K³, Irfan Pasha F⁴, Kavya R⁵

¹Professor, Computer Science Department, RR Institute of Technology, Bengaluru, India

²⁻⁵UG Students, Computer Science Department, RR Institute of Technology, Bengaluru.

ABSTRACT In the recent years the Big Data technologies in agriculture presents a major challenge and also plays an important role in contributing effectively in many countries social and economic development. In this paper, we study the environmental data provided by precision agriculture information technologies which signifies a crucial source of data in essential of being wisely managed and analyzed with appropriate techniques and tools in order to extract the meaningful information. Also the main purpose of this work is to build an effective big data framework based of profile which assists the producers, consultants, researchers to make better decisions, enhance and monitor the agricultural productivity

Keywords: Big Data, Data Mining, Precision Farming, Prediction Analysis, Profiling System.

1. INTRODUCTION

Big data is a term used to refer the data sets that are too large or complex for traditional data processing application software to adequately deal with Big data challenges. In the recent years, the huge volume of real time data in the agricultural sector and its need for an efficient and effective processing, stimulate the use of novel technologies and platform to acquire, store, process, analyze and visualize large data sets or future predictions and decision making. The stored data is analyzed and predicts the future condition in agriculture. It helps in order to meet the needs and requirements of various end users. Agricultural practices, in all their forms, are responsible of the considerable data quantity and they use a large number of external data to guide farmer decision. Farmer's predicting manually the demand of grains and vegetable so its effect to farmers economically to overcome this problem we are proposed machine learning auto demand and yield prediction process. Then the Admin will upload datasets to Hadoop Framework which contains crop data, crop demand data, crop yield data, Vegetable Demand data and Vegetable Yield data of the Previous 10 Years of Demands for the Vegetables and Grains in the Particular District. Next User will upload his PANI Details of his Land Which Contains Aadhar number, Survey number, Total Land and Soil Type. After Comparing the Above Datasets with Testing Datasets using the Linear Regression Algorithm We Predict the Output Value for Predicting the Particular Crops to be Grown in the Specified.

1.1 Cloud Computing for Big Data Environment

Cloud computing is the ideal model for large data because of its endless scalability and resources used on-demand. It promises reliable services based on virtualized storage technologies. Resort to a cloud computing technology in agriculture can give considerable solutions to analysts and decision makers. Using the cloud, we can benefit from special bricks in Big Data management to collect and centralize data the maximum as possible regardless their sources, to make detailed analysis in order to obtain valuable data. This can be ensured by the use of new database models including mixed approaches between relational and non-relational (NoSQL) databases, also by a distributed architecture at processing level of unstructured data with the aim to spread the load over a large number of servers (cluster) using a total abstraction of subagent parallelizing mechanism.



PKM Educational Trust ®

R.R. Institutions

Chikkabanavara, Bangalore-560090

Prof. & Dean (Strategy & Corporate Communication)

Date:18.02.2020

Ref:RRI/DSC/2019-20/38

CIRCULAR

All the HOD's and Placement coordinators, kindly inform final year students to attend the Industry related Talk conducted by placement & Dean's office and is scheduled on 19-02-2020 at 2.30 PM followed by interactive session with the company Reformx at 3:40 PM.

Venue: Seminar Hall Civil Block RRIT

Time : 2:30PM

Dr. T. Naveen Kumar
Dean(S&C)
RRI

Cc:

1. Director PKMET.
2. IQAC RRIT.
3. ALL HOD's & Placement Coordinator.



PKM Educational Trust &

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi Recognized by Govt. of Karnataka

Accredited by NAAC with 'B--'

Raja Reddy Layout, Chikkabanavara, Bengaluru -560 090

Department of Information science & Engineering

Date:21/02/2020

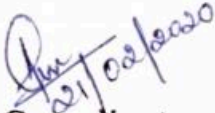
Report


One day Placement training session on the topic "Industry Related Talk" was organized by department of Computer Science and Engineering on 19th Feb 2020 at 2.00pm. Prof. Arpitha Martin Assistant Professor of ISE, welcome the speaker, Mr.Bharath and Mr.Nagbushan from Reformx Technology, Bangalore. All the 6th & 8th semester students of ISE attended the training.Reformx Consulting is an IT Services organization with a strong focus on Staffing solutions. Headquartered at Bangalore, India, Reformx Consulting Pvt Ltd d is guided with a strong leadership team to cater to staffing across Executive, Mid and junior levels and handle services in the gamut of activities that we undertake. Recruitment team comes with an in depth expertise to handle any requirement that comes our way. Our customized and flexible staffing solution makes us a preferred vendor with most of our clients.

➤ Domain Specialization

Embedded/Telecom/Wireless/Mobile/Semiconductor/Engineering/Automotive/Aerospace/BFSI/Retail / Healthcare & IT Infrastructure and Testing.

Reformx Consulting is a group of domain specialized recruitment firms, most of them being a pioneer in their own space. We focus on providing clients with the best of talent in the market. With our key specialized areas: Analytics, Quant, and Tech we create quality experiences for clients.


Faculty Co-ordinator
(Prof.Arptha Martin)


HOD
HOD of Information Science Engineering
R.R. Institute of Technology
Hesarghatta Main Road,
Chikkabanavara, Bangalore-50.

INDUSTRY RELATED TALK (19 FEBRUARY 2020)





PKM Educational Trust

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE - New Delhi, Recognized by Govt. of Karnataka
Accredited by NAAC with 'B-'

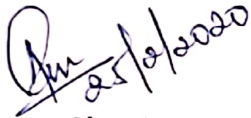
Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Information science & Engineering

Date:25/02/2020

Circular

All the 8th semester students of ISE are here by informed to attend compulsorily one day Placement & Training session on 26th February 2020 at 2.00pm.


25/02/2020

Faculty Co-ordinator
(Prof. Arpitha Martin)


25/2/2020
HOD

HOD of Information Science Engineering
R.R. Institute of Technology
Hesarajhaxu Main Road,
Chikkabanavara, Bangalore - 90.



PKM Educational Trust

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka
Accredited by NAAC with 'B'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

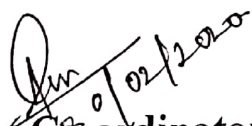
Department of Information Science & Engineering

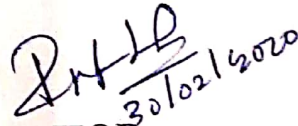
Date:30/02/2020

Report

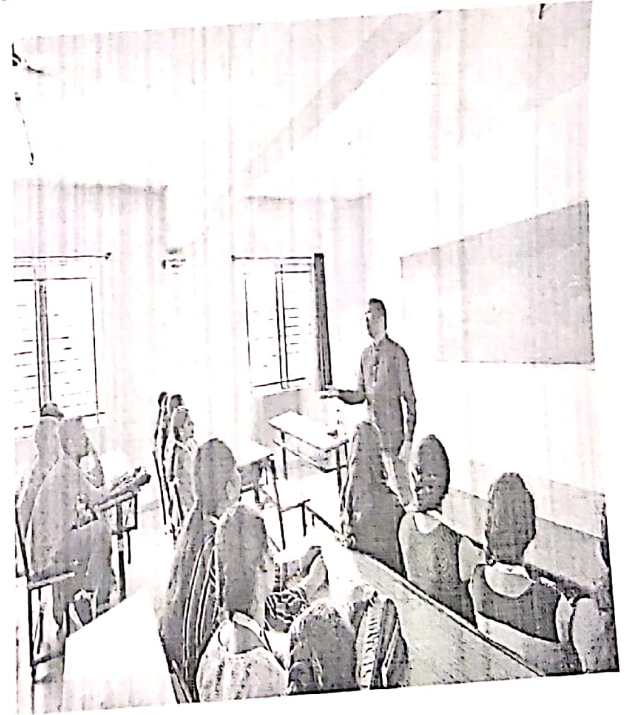
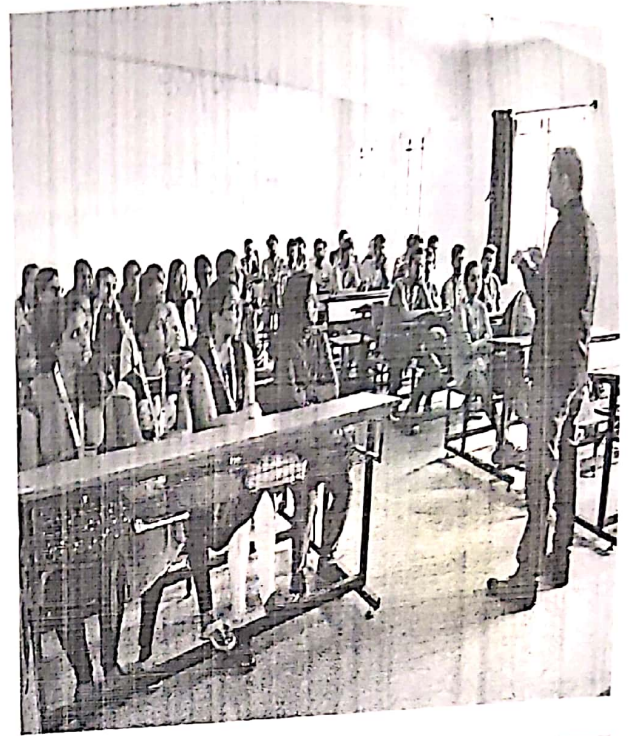
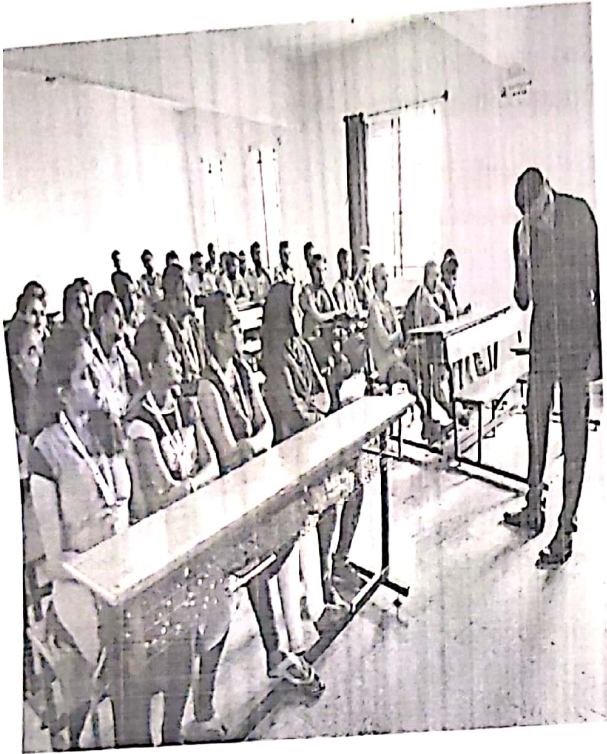
One day Placement training session on the topic "Personality Development" was organized by Department of Information Science and Engineering on 28th Feb 2020 at 2.00pm. Prof. Arpitha Martin Assistant Professor of CSE, welcome the speaker, Mr.Paul Fernandes from Genesis Training Technology, Bangalore. All the 8th semester students of CSE attended the training. Genesis Training Technology, organization with a strong focus on Staffing solutions. Headquartered at Bangalore, India, Genesis Training Technology, Pvt Ltd is guided with a strong leadership team to cater to staffing across Executive, Mid and junior levels and handle services in the gamut of activities that we undertake. Recruitment team comes with an in depth expertise to handle any requirement that comes our way. Our customized and flexible staffing solution makes us a preferred vendor with most of our clients.

Genesis Training as an organization is a brain child of keen, enthusiastic and driven individuals who are willing to push the boundaries of formal education and to explore and create practical and implementable strategies of learning and retention. The journey of the company from being a thought process to being one of the leading contenders in the avenue of Campus to Corporate Training is an exciting one. We humbly owe of success to our Clients, who have believed in our methodology of training and to our experienced Trainers talent pool whose relentless efforts to make learning fun has made us more acceptable amongst students. Our vision is to create a platform where learning is no longer a burden but a choice made by that specific learner to transform their dreams into reality


Faculty Co-ordinator
(Prof.Arptha Martin)


HOD
Department of Information Science Engineering
R.R. Institute of Technology
Hesaraghatta Main Road,
Chikkabanavara, Bangalore - 56

Photos of Placement training session on the topic "Personality Development"



Dr. H. S.
20/02/2020

Department of Information Science & Engg.
R.R. Institute of Technology
Hesaraghatta Main Road,
Chikkabanaswari, Bangalore - 90.



PKSI Educational Trust

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognized by Govt of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 000

Department of Information Science & Engineering

Date: 26/02/2020

Placement & Training Session

Attendance Sheet

Sl. No.	USN	Student Name	Signature of Student
1	1RI15IS002	ADITHYA U	Adithya
2	1RI15IS006	ARASAN J	Aarav
3	1RI15IS025	RANJITHA V	Ranjitha V
4	1RI15IS030	SHIVA KUMAR S	Shiva
5	1RI15IS032	SWATHI R	Swathi
6	1RI15IS038	R KRUTHIKA	R Kruthika
7	1RI15IS039	DHANYATHA M	Dhanya
8	1RI16IS003	AJESH MAHATO	Ajesh
9	1RI16IS008	ASHISH ACHARYA	Ashish
10	1RI16IS009	BIKASH POUDEL	Bikash
11	1RI16IS010	BINDUSHREE B S	Bindushree
12	1RI16IS011	DEL GURUNG	Del
13	1RI16IS013	ICHCHHA PARAJULI	Ichchha
14	1RI16IS015	JAYANTH C R	Jayanth C R
15	1RI16IS016	KAVYA C	Kavya C
16	1RI16IS019	MADHAV BAIJU	Madhav
17	1RI16IS021	MOHAMMAD IRFAN MUSALMAN	Mohammad Irfan
18	1RI16IS023	NIVEDA R	Niveda R
19	1RI16IS025	PRUTHVIRAJ S	Pruthviraj S
20	1RI16IS026	PUJA TIWARI	P.T.
21	1RI16IS027	RAJENDRA THARU	Rajendra

22	1RI16IS028 ✓	RANJAN KC	Ranj.
23	1RI16IS030 ✓	RUBINA SHRESTHA	Rubina
24	1RI16IS031 ✓	S AISHWARYA RAO	Saish
25	1RI16IS032 ✓	SACHIN S	sachin.s
26	1RI16IS033	SADIP KARKI	Sadip Karki
27	1RI16IS034 ✓	SAMIR PAUDYAL	Samir Pah
28	1RI16IS035	SANJAY SENCHURY	Sanj
29	1RI16IS037 ✓	SAURAB KANDEL	Saurab Kumar
30	1RI16IS038	SHAILESH MAN NAKARMI	Shailesh
31	1RI16IS039 ✓	SHANTHARUBAN	Shantharuban
32	1RI16IS040	SHARATH R	Sharath R
33	1RI16IS041	SHIBAM MALLICK	Shibam
34	1RI16IS042	SHUBHA S	Shub.
35	1RI16IS046	SUSHANT BHUSAL	Sushant B
36	1RI16IS047	SUSHMITHA N C	Sushmitha
37	1RI16IS049	VIDYA KS	Vidya.ks
38	1RI16IS050 ✓	VINAY N HOLLA	Vinay N
39	1RI16IS051 ✓	YASHASWINI R	Yashaswini
40	1RI16IS053 ✓	VARSHA K	Varsha

Arpitha Martin
26/02/2020

Faculty Co-ordinator
(Prof.Arptha Martin)

Dr. M. S. B.

HOD

HOD of Information Science Engineering
R.R. Institute of Technology
Hesaraghatta Main Road,
Challurabanaswara, Bangalore - 90.

3/4

PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

-PKM Educational Trust ®

Department of Civil Engineering

ORGANIZING COMMITTEE

Chief Patron

Sri Y. Raja Reddy

Chairman, PKMET, Bengaluru

Patron

Sri Kiran H.R.

Secretary, PKMET, Bengaluru

Sri Arun H.R.

Director, PKMET, Bengaluru

Administrators

Prof. Maya Salimath G

Director QAC –R. R. Institutions

Chair Person

Dr. Mahendra K V

Principal- RRIT Bengaluru

Organising Secretary

Dr. G Sankara

HOD, Civil Department

Organising Committee Members

Prof. R S Patil

Asst prof, Civil Department

Prof. Gunasheela P

Asst prof, Civil Department

Prof. Sharmila H C

Asst prof, Civil Department

Student Members

Mr. Aravindagowda

Ms. Anupama Raikar

Mr. Shyamdev Yadav

Ms. Khusbhu Chaudari

Mr. Tousif Ansari

Ms. Ramya T L

Department of Civil Engineering

Cordially invites all students and faculties for

SKILL QUEST 2022

In association with CADD Centre

An activity under

Placement and training

on

11.15 AM to 1.05 PM

Venue: Room. No 206

CHIEF GUEST

Sri Y. Raja Reddy

Chairman, PKMET, Bengaluru

GUEST OF HONOR

Sri Kiran H.R.

Secretary, PKMET, Bengaluru

&

Sri Arun H.R.

Director, PKMET, Bengaluru

SPEAKER

Mr. Ameet Gogi

Business Head-CADD Centre

Basaveshwar Nagar, Bangalore.


HOD CIVIL Engg.
R.R. INST. OF TECHNOLOGY
Chikkabanavara, Bengaluru 560090


Signature

Dr. Mahendra K V
PRINCIPAL

VISION - To be a premier Institute with excellence in the field of Engineering and Management education at National



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Civil Engineering

Date: 24-12-2021

SKILL QUEST 2022

In association with CADD Centre,
Basaveshwarnagar, Bangalore.

Department of Civil Engineering organized SKILL QUEST 2022 on 23rd December 2021, 11.15 AM to 1.05 PM in association with CADD Centre Basaveshwar Nagar, Bangalore. This program helps to students of RRIT to get scholarships offered by CADD Centre. This program is the part of MOU with CADD Centre. Scholarship test was conducted by Prof. R S Patil, Prof. Gunasheela P, Prof. Sharmila H C, and representatives of CADD Centre.

CADD Skill Quest 2022 is a scholarship program which is conducted by CADD centre for engineering design courses throughout the country. The scholarship program provides an opportunity to the meritorious applicants to master their skill in CAD and help them grow in their core field be it Mechanical, Electrical, Industrial, architecture or civil. The CAD scholarship is provided to 20000 applicants across the country.

95 Students from 5th & 7th Semester Civil Engineering Department participated in the SKILLQUEST 2022 and students were selected for the next round of competition.

Photo Gallery





PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi .Recognised by Govt. of Karnataka

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Civil Engineering




Co-ordinators


HOD Civil Engg.
R.R. INST. OF TECHNOLOGY
Chikkabanavara Bengaluru 560 090



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Civil Engineering

DATE: 23/12/2022

SKILL QUEST 2022
In association with CADD Centre
23-12-2021
Attendance Sheet
5th and 7th Semester Students

SI NO	NAME	USN	Semester	SIGN
1	SURAJ BISWAS	1RI18CV419	7	Suraj Biswas
2	DHIRAJ KUMAR SAH	1RI18CV013	7	Dhiraj Kumar Sah
3	DHIRAJ SHAH	1RI18CV014	7	Dhiraj Shah
4	DURGESH BATALA	1RI18CV015	7	Durgesh Batala
5	EVAN RAJ SUBBA	1RI18CV017	7	Evan Raj Subba
6	JAVED OSTA	1RI18CV019	7	Javed Osta
7	GIOMO LERIAK	1RI15CV024	7	Giomo Leriak ABSENC
8	JAYANDRA RAWAL	1RI18CV020	7	Jayandra Rawal
9	JOHNSWELL SYIEM	1RI18CV021	7	Johnswell Syiem
10	JOSHAN ACHARYA	1RI18CV022	7	Joshan Acharya
11	KHUSHUBU CHAUDHARI	1RI18CV024	7	Khushubu Chaudhari
12	SANTOSHKUMAR YADAV	1RI18CV039	7	Santosh Kumar Yadav
13	SHYAM DEVYADAV	1RI18CV040	7	Shyam Devyadav
14	SINCHANA M	1RI18CV041	7	Sinchana M
15	PANKAJ KANOJIYA	1RI18CV028	7	Pankaj Kanojiya
16	PANKAJYADAV	1RI18CV029	7	Pankaj Yadav
17	PRAMIKA A	1RI18CV030	7	Pramika A
18	PRAMODKUMAR MAHATO	1RI18CV031	7	Pramod Kumar Mahato
19	DHARMENDRA KUMAR SAH	1RI18CV012	7	Dharmendra Kumar Sah
20	LITON DEBBARMA	1RI18CV409	7	Liton Debbarma
21	SHRAVANA KUMAR	1RI18CV416	7	Shravana Kumar
22	SANJAY KUMAR SAH	1RI18CV038	7	Sanjay Kumar Sah
23	DEEPAKTHAKUR	1RI18CV010	7	Deepak Thakur
24	AKASH C	1RI15CV004	7	Akash C
25	AISWARYA CS	1RI16CV001	7	Aishwarya C.S



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Civil Engineering

26	BASAVAN GOWDA	IRI16CV011	7	<i>Basvan Gowda</i>
27	PASHBHALANG THABA	IRI16CV038	7	<i>Pashbhalang Thaba</i>
28	PREMCHANDRA NAIDU	IRI16CV041	7	<i>Premchandra</i>
29	SHANIAHLANG LINGDOH	IRI16CV062	7	<i>Shaniahlang Lingdoh</i>
30	MANOJ GOWDAH K	IRI17CV023	7	<i>Manoj Gowdah K</i>
31	M'D IMRAN ANSARI	IRI17CV026	7	<i>M'd Imran Ansari</i>
32	PAON THANGJAM	IRI17CV026	7	<i>Paon Thangjam</i>
33	SANGIT PANDIT	IRI17CV044	7	<i>Sangit Pandit</i>
34	SUSHEELKUMAR	IRI17CV051	7	<i>Susheel Kumar</i>
35	SREEHARI P P	IRI18CV042	7	<i>Sreehari P P</i>
36	VINITH G	IRI18CV045	7	<i>Vinith G</i>
37	ARAVINDGOWDA A	IRI19CV400	7	<i>Aravind Gowda A</i>
38	ASHMITA DAS	IRI19CV401	7	<i>Ashmita Das</i>
39	BEDANTA DOWARAH	IRI19CV402	7	<i>Bedanta Dowarah</i>
40	DIVYA H	IRI19CV403	7	<i>Divya H</i>
41	MOHAMMED AKTHAR S A	IRI19CV404	7	<i>Md. Akthar</i>
42	PINAK PANI HAZARIKA	IRI19CV405	7	<i>Pinak Pani Hazarika</i>
43	SHASHI PREETHAM N	IRI19CV406	7	<i>Shashi Preetham N</i>
44	SUMEHIYMBON	IRI19CV407	7	<i>Sumehiybon</i>
45	ZAID HASSAN	IRI19CV408	7	<i>Zaid Hassan</i>
46	RAMANDIP KUMARMAHATO	IRI18CV032	7	<i>Ramandip K</i>
47	RISHU KUMARCHAURASIYA	IRI18CV034	7	<i>Rishu Kumarchaurasiya</i>
48	SACHENDRA KUMARYADAV	IRI18CV035	7	<i>Sachendra Yadav</i>
49	SAILESH SAHANI	IRI18CV036	7	<i>Sailesh Sahani</i>
50	SANDEEP KUMARYADAV	IRI18CV037	7	<i>Sandeep Kumaryadav</i>



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Civil Engineering

51	ARJUN N SHAJI	1RI16CV350	5	<i>Arjun</i>
52	AKSHAY A C	1RI18CV002	5	<i>Akshay</i>
53	ASHWIN B C	1RI18CV004	5	<i>Ashwin. B.c.</i>
54	ASWIN PURUSHOTHAMAN P	1RI18CV005	5	ABSENT
55	HEMANTH GOWDA R	1RI18CV018	5	<i>Hemant</i>
56	MUHAMMED SHAKIR	1RI18CV026	5	<i>Md Shakir</i>
57	VIKASH KUMAR	1RI19CV033	5	<i>Vikash Kumar</i>
58	YESHWANTH K	1RI19CV034	5	<i>Yeshwanth</i>
59	MANAHAR NISHAD	1RI19CV014	5	<i>Manahar</i>
60	DEV ANAND S	1RI18CV011	5	<i>Dev Anand</i>
61	VARUN B R	1RI19CV032	5	<i>Varun</i>
62	SOPHIA GRACE CHYRMANG	1RI20CV403	5	<i>Sophia</i>
63	SANJAY CHAUDHARY	1RI20CV013	5	<i>Sanjay</i>
64	SANJAY KUMAR MANDAL	1RI20CV014	5	<i>Sanjay</i>
65	ANEY DEBBARMA	LE	5	<i>Anney</i>
66	SONU YADAV	1RI20CV027	5	<i>Sonu yadav</i>
67	DEBANKAN SARKAR	LE	5	<i>Debankan Sarkar</i>
68	SIDDARTHA LODH	LE	5	<i>Siddhartha</i>
69	MOUTOSHI BISWAS	LE	5	<i>Moutoshi</i>
70	ARJUN SUKUL	LE	5	<i>Arjun Sukul</i>
71	BHUWAN BABLI	LE	5	<i>Bhuvan</i>
72	BIKRAM PRASAD SAH	1RI18CV008	5	<i>Bikram</i>
73	VINAY PAMPANNA BUDDANAVAR	1RI16CV075	5	<i>Vinay</i>
74	NOOTHAN D N	1RI17CV032	5	<i>Noothan D.N</i>
75	UMMAR FAROOQ	1RI17CV054	5	<i>Ummar</i>



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Civil Engineering

76	AKHILESH KUMAR YADAV	1RI18CV001	5	
77	ANUPAMA R RAIKAR	1RI18CV003	5	
78	BAIJU PRASAD GUPTA	1RI18CV006	5	
79	BIKESH BHATTARAI	1RI18CV007	5	
80	ARVIND S	1RI15CV013	5	
81	SWAMY C S	1RI15CV073	5	
82	BHARATH C	1RI17CV403	5	
83	JAY PRAKASH	1RI19CV011	5	
84	LAV KUMAR SINGH	1RI19CV012	5	
85	LEKHNATH ADHIKARI	1RI19CV013	5	
86	SUJIT KUMARBARHI	1RI19CV029	5	
87	SUMI S	1RI19CV030	5	
88	UJJWAL KHANAL	1RI19CV031	5	
89	BASHIDA NATALIAIAWPHNIAW	1RI20CV401	5	
90	PINKI MACHAHARY	1RI20CV402	5	
91	GAGAN DINESH	1RI19CV009	5	
92	SNGEWHUN SHISHA THABAH	1RI19CV028	5	
93	ANURAAG H M	1RI14CV005	5	
94	YASHAS S N	1RI17CV055	5	
95	SUHAS S L	1RI18CV425	5	
96	MUKESH KUMAR	1RI18CV027	5	
97	CHANDRABHUSHAN MAHATO	1RI18CV009	5	

Co-ordinators

HOD Civil Engg.
R.R. INST. OF TECHNOLOGY
Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090



PKM EDUCATIONAL TRUST®

R R Institutions
BANGALORE

PHD | ENGINEERING | ARCHITECTURE | NURSING | PHARMACY | MBA
ALLIED HEALTH SCIENCES | POLYTECHNIC | EDUCATION | DEGREE | PUC

Lesson Plan

College Name: RR INSTITUTE OF TECHNOLOGY	Academic year :2021-2022
Programme : BE	Semester or Year : I sem or I Year(G-Section)
Subject Name :CALCULUS AND DIFFERENTIAL EQUATIONS	Subject Code :21MAT11
Total contact hours : 40	IA Marks: 50
Faculty Name :CHAMANTHI S Signature :	Reviewed by :Dr. V RAMACHANRDA MURTHY Signature :

Significance of the Subject:

- 1) The polar curves are used in transmission and distribution for sag calculations at different points. It gives us the advantage of studying behavior having infinitesimal variation, we can find out heat transfer through a uniformly varying body, thermal distribution of condenser (OR) insulating layer, force and moment calculation in case of variably loaded beams and structures,etc.
- 2) It is used to find slope and deflection in civil engineering structures subjected to external loads. The Taylor's series is for finding tool life in machining operations. The software like ANSYS (FLUENT) etc undergoes a very large number of iterations so as to reach a particular solution for those equations whose direct solution doesn't exist. Hence, majorly in that scenario, the concept of Taylor's series comes into the picture. Taylor's transformations are used to optimize rectangular fins with variable thermal parameters. Both Taylor's and Maclaurin's series is used in heat transfer in transient heat conduction. It is used in modelling and analysis of transmission line (long, medium and short).
In partial derivatives, the Euler's theorem and Jacobians are used for stability studies transient, sub transient, steady state of electric power system network.
- 3) Differential equations have wide applications in various engineering and science disciplines. In general modelling of variation of physical quantity , such as temperature, pressure, displacement, velocity, stress, strain, current, voltage or concentration of a pollutant, with the change of time or location or both.
In many engineering subjects, such as mechanical vibrations or structural dynamics, heat transfer or theory of electric circuits are founded on the theory of differential equations.
- 4) Differential Equations are extremely helpful to solve complex mathematical problems in almost every domain of Engineering, Science and Mathematics. If you are an Engineer, you will be integrating and differentiating hundreds of equations throughout you career, because these equations have a hidden answer to a really complex problem. Mathematicians and Researchers like Laplace, Fourier, Hilbert etc., have developed such equations to make our life easier.
- 5) It is used quite heavily in structural engineering. It is used for network topology to determine controllability and observability of particular system or electric network. It is a fundamental for electric power system network analysis. The linear algebra has wide applications in engineering subjects like coding theory, cryptography, computer graphics and optimization techniques. It is used to find the solution of ODE, Signal Processing and stability problems. It is mainly used in solving the problems such as trusses, beams, supports, frames, material mechanics, fluid dynamics and mechanical stresses.

Course Objective:



The goal of the course Calculus and Differential Equations - 21MAT11 is

- To facilitate the students with a concrete foundation of differential calculus
- To solve the first and higher-order ordinary differential equations enabling them to acquire the knowledge of these mathematical tools.
- To develop the knowledge of matrices and linear algebra in a comprehensive manner.

Course Outcomes:

CO1: Apply the knowledge of calculus to solve problems related to polar curves and its applications in determining the bentness of a curve.

CO2: Learn the notion of partial differentiation to calculate rates of change of multivariate functions and solve problems related to composite functions and jacobians.

CO3: Solve first order linear/nonlinear differential equation analytically using standard methods.

CO4: Demonstrate various models through higher order differential equations and solve such linear ordinary differential equations.

CO5: Test the consistency of a system of linear equation and to solve them by direct and interactive methods

Class No	Module No & Hours as per University	Topic to be covered	Teaching aids (CT/Online/PPT)	Skill Development *Refer Below)	Date		Blooms level (Refer Below)	CO's	Remarks
					Planned	Completed			
1.	BRIDGE COURSE	Basic concepts	CT	Problem Solving Skills	03/01/2022	5/1/22			
2.		Review of elementary differential calculus	CT	Problem Solving Skills	04/01/2022				
3.		Polar curves : Angle between the radius vector and tangent	CT	Problem Solving Skills	05/01/2022	6/1/22	L1 & L2	CO1	
4.		Angle between two curves	CT	Problem Solving Skills	06/01/2022	7/1/22	L1 & L2	CO1	
5.		Problems on above topic	CT	Problem Solving Skills	07/01/2022	7/1/22	L1 & L2	CO1	



PKM EDUCATIONAL TRUST ®

R R Institutions

BANGALORE

PHD | ENGINEERING | ARCHITECTURE | NURSING | PHARMACY | MBA
ALLIED HEALTH SCIENCES | POLYTECHNIC | EDUCATION | DEGREE | PUC

Since 1993

6.	MODULE-1 DIFFERENTIAL CALCULUS - I (10 HRS)	Pedal equation for Polar curves	CT	Problem Solving Skills	07/01/2022	11/1/22	L1&L2	CO1
7.		Problems on above topic	CT	Problem Solving Skills	10/01/2022	14/1/22	L1&L2	CO1
8.		Curvature and radius of curvature in Cartesian forms (without proof) & problems	CT	Problem Solving Skills	11/01/2022	13/1/22	L1&L2	CO1
9.		Problems on above topic	CT	Problem Solving Skills	11/01/2022	13/1/22	L1&L2	CO1
10.		Problems on above topic	CT	Problem Solving Skills	12/01/2022	17/1/22	L1&L2	CO1
11.		Centre and circle of curvature	CT	Problem Solving Skills	13/01/2022	17/1/22	L1&L2	CO1
12.		Problems on above topic	CT	Problem Solving Skills	14/01/2022	17/1/22	L1&L2	CO1
13.		Applications to evolutes and involutes	CT	Problem Solving Skills	14/01/2022	18/1/22	L1&L2	CO1
14.		REVISION	CT	Problem Solving Skills	17/01/2022	18/1/22	L1&L2	CO1
15.		Problems on above topic	CT	Problem Solving Skills	18/01/2022	19/1/22	L1&L2	CO1
16.		Taylor's and Maclaurin's theorems for function of one variable (Statement only) & problems	CT	Problem Solving Skills	18/01/2022	20/1/22	L1&L2	CO2
17.		Problems continued	CT	Problem Solving Skills	19/01/2022	21/1/22	L1&L2	CO2
18.		TUTORIALS	CT	Problem	20/01/2022	24/1/22	L1&L2	CO2



PKM EDUCATIONAL TRUST ®

R R Institutions

BANGALORE

PHD | ENGINEERING | ARCHITECTURE | NURSING | PHARMACY | MBA
ALLIED HEALTH SCIENCES | POLYTECHNIC | EDUCATION | DEGREE | PUC

Since 1993

				Solving Skills			L2		
19.	MODULE - 2 DIFFERENTIAL CALCULUS - 2 (10 hours)	Evaluation of Indeterminate forms & problems	CT	Problem Solving Skills	21/01/2022	2/1/22			
20.		REVISION	CT	Problem Solving Skills	21/01/2022	3/1/22			
21.		L'Hospital's rule & problems	CT	Problem Solving Skills	24/01/2022	1/2/22	L1 & L2	C02	
22.		Partial derivatives – Definition & Simple problems	CT	Problem Solving Skills	25/01/2022	2/2/22	L1 & L2	C02	
23.		Total derivatives- differentiation of composite functions and problems	CT	Problem Solving Skills	25/01/2022	3/2/22	L1 & L2	C02	
24.		Maxima and minima for a function of two variables	CT	Problem Solving Skills	31/01/2022	4/2/22	L1 & L2	C02	
25.		TUTORIAL	CT	Problem Solving Skills	21/01/2022	4/2/22			
26.		Method of lagrange multipliers with one subsidiary condition	CT	Problem Solving Skills	21/01/2022	7/2/22	L1 & L2	C02	
27.		Applications of maxima and minima with illustrative examples	CT	Problem Solving Skills	24/01/2022	8/2/22	L1 & L2	C02	
28.		Jacobians – Definition & evaluation	CT	Problem Solving Skills	25/01/2022	8/2/22	L1 & L2	C02	
29.	MODULE - 5 LINEAR ALGEBRA (10 hours)	Rank of a matrix – echelon form	CT	Problem Solving Skills	31/01/2022	14/2/22	L1, L2 & L3	C05	
30.		Solution of system of linear equations –	CT	Problem Solving	01/02/2022	15/2/22	L1, L2 & L3	C05	



PKM EDUCATIONAL TRUST ®

R R Institutions

BANGALORE

PHD | ENGINEERING | ARCHITECTURE | NURSING | PHARMACY | MBA
ALLIED HEALTH SCIENCES | POLYTECHNIC | EDUCATION | DEGREE | PUC

	consistency		Skills				
I IA TEST (MODULE 1 & 50% OF MODULE 2)							
31.	REVISION			03/02/2022	17/2/22		
32.	Gauss elimination method & problems	CT	Problem Solving Skills	04/02/2022	17/2/22	L1,L2 & L3	C05
33.	Gauss Jordan method & problems	CT	Problem Solving Skills	04/02/2022	18/2/22	L1,L2 & L3	C05
34.	Approximate solution by Gausseidel method and problems	CT	Problem Solving Skills	05/02/2022	24/2/22	L1,L2 & L3	C05
35.	eigen values and eigen vectors	CT	Problem Solving Skills	08/02/2022	25/2/22	L1,L2 & L3	C05
36.	TUTORIAL	CT	Problem Solving Skills	08/02/2022	25/2/22		
37.	REVISION	CT	Problem Solving Skills	09/02/2022	25/2/22		
38.	Rayleigh's power method to find the largest eigen value and the corresponding eigen vector & problems.	CT	Problem Solving Skills	10/02/2022	2/3/22	L1,L2 & L3	C05
39.	Problems continued	CT	Problem Solving Skills	11/02/2022	3/3/22	L1,L2 & L3	C05
40.	Diagonalisation of a square matrix of order two	CT	Problem Solving Skills	11/02/2022	4/3/22	L1,L2 & L3	C05
41.	Problems continued	CT	Problem Solving Skills	15/02/2022	4/3/22	L1,L2 & L3	C05
42.	TUTORIAL	CT	Problem Solving Skills	15/02/2022	4/3/22		



PKM EDUCATIONAL TRUST ©

R R Institutions

BANGALORE

PHD | ENGINEERING | ARCHITECTURE | NURSING | PHARMACY | MBA
ALLIED HEALTH SCIENCES | POLYTECHNIC | EDUCATION | DEGREE | PUC

Since 1993

43.		REVISION	CT	Problem Solving Skills	16/02/2022	9/3/22				
44.	MODULE-3 ORDINARY DIFFERENTIAL EQUATIONS OF FIRST ORDER (10 hours)	Exact and reducible to exact differential equations & problems	CT	Problem Solving Skills	17/02/2022	9/3/22	L1,L2 & L3	C03		
45.		Bernoulli's equation & problems	CT	Problem Solving Skills	18/02/2022	10/3/22	L1,L2 & L3	C03		
46.		Applications of ODE's	CT	Problem Solving Skills	18/02/2022	10/3/22	L1,L2 & L3	C03		
47.		Orthogonal trajectories & problems	CT	Problem Solving Skills	24/02/2022	11/3/22	L1,L2 & L3	C03		
48.		TUTORIAL	CT	Problem Solving Skills	25/02/2022	11/3/22				
II IA TEST (50% OF MODULE 2 & MODULE 5)										
49.			Newton's law of cooling and L-R circuits & problems	CT	Problem Solving Skills	01/03/2022	14/3/22	L1,L2 & L3	C03	
50.			Non linear differential equations	CT	Problem Solving Skills	01/03/2022	19/3/22	L1,L2 & L3	C03	
51.			TUTORIAL	CT	Problem Solving Skills	03/03/2022	16/3/22			
52.			REVISION	CT	Problem Solving Skills	04/03/2022	22/3/22			
53.		Problems continued	CT	Problem Solving Skills	08/03/2022	22/3/22	L1,L2 & L3	C03		
54.		Introduction to general and singular solutions problems	CT	Problem Solving Skills	09/03/2022	23/3/22	L1,L2 & L3	C03		
55.		Solvable for P	CT	Problem Solving	10/03/2022	24/3/22	L1,L2 & L3	C03		



				Skills					
56.	TUTORIAL	CT	Problem Solving Skills	11/03/2022	25/3/22				
57.	REVISION	CT	Problem Solving Skills	15/03/2022	25/3/22				
58.	Clairaut's and reducible to Clairaut's equations only	CT	Problem Solving Skills	17/03/2022	25/3/22	L1,L2 & L3	CO3		
59.	Concepts of Solutions of second order differential equations & problems.	CT	Problem Solving Skills	18/03/2022	28/3/22	L1,L2 & L3	CO4		
60.	Problems continued	CT	Problem Solving Skills	22/03/2022	29/3/22	L1,L2 & L3	CO4		
61.	Solutions of higher order differential equations & problems	CT	Problem Solving Skills	23/03/2022	29/3/22	L1,L2 & L3	CO4		
62.	TUTORIAL	CT	Problem Solving Skills	24/03/2022	29/3/22				
63.	REVISION	CT	Problem Solving Skills	25/03/2022	30/3/22				
64.	Inverse differential operator method	CT	Problem Solving Skills	01/04/2022	31/3/22	L1,L2 & L3	CO4		
65.	Problems continued	CT	Problem Solving Skills	05/04/2022	01/4/22	L1,L2 & L3	CO4		
66.	Method of variation of parameters & problems on it.	CT	Problem Solving Skills	06/04/2022	08/4/22	L1,L2 & L3	CO4		
67.	Defn. of Cauchy's homogeneous equations &	CT	Problem Solving Skills	07/04/2022	09/4/22	L1,L2 & L3	CO4		

MODULE -4
ORDINARY DIFFERENTIAL EQUATIONS OF HIGHER ORDER
10 HOURS



PKM EDUCATIONAL TRUST ©

R R Institutions

BANGALORE

PHD | ENGINEERING | ARCHITECTURE | NURSING | PHARMACY | MBA
ALLIED HEALTH SCIENCES | POLYTECHNIC | EDUCATION | DEGREE | PUC

		problems						
68.		TUTORIAL	CT	Problem Solving Skills	08/04/2022	09/4/22		
III IA TEST (MODULE -3 & MODULE -4)								
69.		Defn. of Legendre's homogeneous equations & problems. Applications to oscillations of a spring and L-C-R circuits.	CT	Problem Solving Skills	12/04/2022	11/4/22	L1, L2 & L3	CO4
70.		Problems continued on above concepts	CT	Problem Solving Skills	13/04/2022	13/4/22	L1, L2 & L3	CO4
71.		Problems continued on above concepts	CT	Problem Solving Skills	19/04/2022	18/4/22	L1, L2 & L3	CO4
72.		TUTORIAL	CT	Problem Solving Skills	20/04/2022	19/4/22		
73.		REVISION	CT	Problem Solving Skills	21/04/2022	20/4/22		
74.		REVISION			22/04/2022	21/4/22		
75.		REVISION			26/04/2022	22/4/22		
76.		REVISION			27/04/2022	25/4/22		
77.		REVISION			28/04/2022			
78.		REVISION			03/05/2022	} 26/4/22		
79.		REVISION			04/05/2022			
80.		REVISION			05/05/2022	} 3/5/22		
81.		REVISION			06/05/2022			
82.		REVISION			10/05/2022	4/5/22		

* GL: Guest Lecture/IV: Industrial Visits/CS: Case Studies/AA: Article based Assignment or Survey/SDE: Skill Development Exercises /PS: Presentations/ RP: Role Play/SG: Simulation Games/QZ: Quiz/V: Videos/PSS: Problem Solving Skills/PC: Practicals

Bloom's Taxonomy Level

L1-Remembering L2-Understanding L3-Appling L4-Analysing L5-Evaluating L6-Creating



PKM EDUCATIONAL TRUST ®

R R Institutions

BANGALORE

PHD | ENGINEERING | ARCHITECTURE | NURSING | PHARMACY | MBA
ALLIED HEALTH SCIENCES | POLYTECHNIC | EDUCATION | DEGREE | PUC

Since 1993

Text Books:

1	B.S.GREWAL: Higher Engineering Mathematics ,Khanna publishers,43 rd Ed.,2015.
2	E.KREYSZIG: Advance Engineering Mathematics,John Wiley & sons,10 th Ed.,2016.

Reference Books:

1	C.RAY WYLIE, LOUIS C.RARRETT: "Advanced Engineering Mathematics",6 th Edition,2.McGraw-Hill Book Co.,New York,1995.
2	B.V.RAMANA:"Higher Engineering Mathematics"11 th Edition,TataMcGraw-Hill,2010
3	JAMES STEWART: "Calculus-Early Transcendentals",CengageLearning India Private Ltd.,2017.
4	SRIMANTA PAL &SUBODH C.BHUNIA: "Engineering Mathematics",Oxford University Press,3 rd Reprint,2016.
5	GUPTA C.B., SINGH.S.R AND MUKESH KUMAR: "Engineering Mathematics for Semester I & II" , McGraw-Hill Education(India) Pvt.Ltd.,2015.

Self-Study topics (not included in syllabus)

Sl.No.	Self-Study topics	Suggested reference	Cos
1	Differentiation	I & II Pre university Mathematics Text Book	CO4
2	Integration	I & II Pre university Mathematics Text Book	CO2,CO3
3	Differential Equations of Higher order	Higher Engineering Mathematics by B S GREWAL	CO5
4	Partial Differentiation	B.S.GREWAL: Higher Engineering Mathematics	CO4,CO5

Course Articulation Matrix

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	-	-	-	-	-	-	-	-	2
CO2	3	3	2	-	-	-	-	-	-	-	-	2
CO3	3	2	2	-	-	-	-	-	-	-	-	2
CO4	3	2	2	-	-	-	-	-	-	-	-	2
CO5	3	2	2	-	-	-	-	-	-	-	-	2

Curricula Gap Analysis

Sl.No.	Curricula Gap	Action taken	Date-Month-Year	Resource Person with designation	% of students present	Relevance to POs, PSOs
1						
2						

Signature of faculty	Signature of HOD



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Computer Science & Engineering

PEDAGOGY REPORT

Academic Year	2021-22
Name of the Faculty	Lakshmidevi H M
Course Name/Code	Computer Networks and Security
Semester	5 th semester
Activity Name	Quiz 1
Date	04/02/2022
No. Of participants	45
Objectives/Goals	To Analyse the students regarding understanding of concepts of Application layer and TCP layer
ICT Used	Google Form
Appropriate Method/Instructional Materials/Questions:	
<p>The students were given 12 multiple choice question (MCQ) covering the concepts of application layer and TCP layer. There was an option given to view their results after submitting the form to check their performance in the quiz. The following questions asked...</p> <ol style="list-style-type: none"> _____ is not a application layer protocol The packet of information at the application layer is called _____ Application layer offers _____ service To deliver a message to the correct application program running on a host, the _____ address must be consulted Electronic mail uses which application layer protocol? The _____ translates internet domain and host names to IP address The ASCII encoding of binary data is called _____ When displaying a web page, the application layer uses the _____ HTTP client requests by establishing a _____ connection to a particular port on the server The File Transfer Protocol is built on _____ TCP groups a number of bytes together into a packet called _____ Communication offered by TCP is _____ 	
Relevant POs	PO1, PO2, PO3
Significance of Result/Outcomes	After Analyzing the results we came to know how many have understood the application layer and TCP layer in networks
Reflective Critique	By organizing this quiz we were able to analyse and measure the growth in understanding, knowledge, abilities and skills.
Proofs (Report/Photographs/Charts/Models)	Report Copy


Course In Charge



HOD

Head of Department
Department of Computer Science & Engineering
R.R. Institute of Technology
Nesaraghatta Main Road
Chikkabanavara Bengaluru

SQL QUESTIONS (Prepared by Prof. Janhavi N L Prof. Vani S)

1. With which type of SQL Server recovery model are all database changes logged except those that cause large log entries?
 - A. Differential recovery
 - B. Full recovery
 - C. Simple recovery
 - D. Bulk-logged recovery

2. Using SQL Server 2000, which of the following symbols is used to indicate parameters in stored procedures?
 - A. #
 - B. %
 - C. &
 - D. @

3. What mode of authentication does SQL Server NOT provide?
 - A. Windows-only security
 - B. Both SQL Server and Windows-only security
 - C. Mixed security
 - D. SQL Server only security

4. The strictest transaction isolation level provided by SQL Server is called:
 - A. REPEATABLE READ.
 - B. SERIALIZABLE.
 - C. READ COMMITTED.
 - D. READ UNCOMMITTED.

5. SQL Server program code that is executed instead of an SQL command that needs to be processed is called a(n):
 - A. INSTEAD OF trigger.
 - B. BEFORE trigger.
 - C. AFTER trigger.
 - D. BEGIN trigger.

2/13/17
[Signature]

6. Which type of SQL Server cursor concurrency places an update lock on a row when the row is read?

- A. READ_ONLY
- B. SCROLL_LOCK
- C. OPTIMISTIC
- D. READCOMMITTED

7. Which of the three possible types of triggers does SQL Server support?

- A. INSTEAD OF only
- B. AFTER only
- C. BEFORE only
- D. INSTEAD OF and AFTER only

8. Which of the following is a way to create and modify tables using SQL Server?

- A. Write SQL code using either CREATE or ALTER SQL statements only.
- B. Use the graphical facilities of SQL Server Enterprise Manager only.
- C. Both of the two methods above will work.
- D. Neither of the two methods above will work.

9. With which type of SQL Server recovery model, is no logging done?

- A. Differential recovery
- B. Full recovery
- C. Bulk-logged recovery
- D. Simple recovery

10. SQL Server 2000 stored procedures can:

- A. never be kept within the database.
- B. be kept within the database and invoked by application programs.
- C. be stored on the users' computer.
- D. support BEFORE, INSTEAD OF and AFTER types.

8/10

JL

25/9/19

DATA STRUCTURES APTITUDE QUESTIONS(Prepared by Prof Vinod L B

Prof. Arpitha Martin)

1. The part of machine level instruction, which tells the central processor what has to be done, is
 - A. Operation code
 - B. Address
 - C. Locator
 - D. Flip-Flop
 - E. None of the above

2. Which of the following refers to the associative memory?
 - A. the address of the data is generated by the CPU
 - B. the address of the data is supplied by the users
 - C. there is no need for an address i.e. the data is used as an address
 - D. the data are accessed sequentially
 - E. None of the above

3. To avoid the race condition, the number of processes that may be simultaneously inside their critical section is
 - A. 8
 - B. 1
 - C. 16
 - D. 0
 - E. None of the above


4. A system program that combines the separately compiled modules of a program into a form suitable for execution
 - A. assembler
 - B. linking loader
 - C. cross compiler
 - D. load and go
 - E. None of the above

5. Process is
 - A. program in High level language kept on disk
 - B. contents of main memory
 - C. a program in execution

- D. a job in secondary memory
- E. None of the above
6. The initial value of the semaphore that allows only one of the many processes to enter their critical sections, is
- A. 8
- B. 1
- C. 16
- D. 0
- E. None of the above
7. The Register - to - Register (RR) instructions
- A. have both their operands in the main store.
- B. which perform an operation on a register operand and an operand which is located in the main store, generally leaving the result in the register, except in the case of store operation when it is also written into the specified storage location.
- C. which perform indicated operations on two fast registers of the machine and leave the result in one of the registers.
- D. all of the above
- E. None of the above
8. A page fault
- A. is an error is a specific page
- B. occurs when a program accesses a page of memory
- C. is an access to a page not currently in memory
- D. is a reference to a page belonging to another program
- E. None of the above
9. An algorithm is best described as
- A. A computer language
- B. A step by step procedure for solving a problem
- C. A branch of mathematics
- D. All of the above
- E. None of the above
10. The process of transferring data intended for a peripheral device into a disk (or intermediate

Aptitude test for Data Structures Date:4-09-2019

Sl. No	Email	Name	USN	Score
1	asheshadhikari888@gmail.com	Ashesh Krishna Adhikari	1R118IS008	10/10
2	dineshdhanuk7447@gmail.com	Dinesh Dhanuk	1ri19is018	9/10
3	likithavarshini2001@gmail.com	Likitha Varshini	1R119IS024	10/10
4	akky36597@gmail.com	Akash Kumar	1R119IS002	10/10
5	chandanchandu5650@gmail.com	Chandan R	1R119IS014	10/10
6	balkrishnavyas99@gmail.com	Vyas Balakrishna R	1R118IS040	8/10
7	ry897595@gmail.com	Rakesh kumar yadav	1R119IS033	10/10
8	mehtanikee9@gmail.com	Nikee Mehta	1R119IS032	10/10
9	denwindavis@gmail.com	Denwin Davis	1R119IS016	9/10
10	samirsinghlapen@gmail.com	Samir Singh	1R119IS038	10/10
11	aditisahu719@gmail.com	Aditi Sahu	1R119IS001	10/10
12	Meghashreeroy@gmail.com	Meghashree Roy	1R119IS028	9/10
13	varunbvkr27@gmail.com	BHAVANAM VARUN KUMAR REDDY	1ri19is010	10/10
14	dl.sujan99@gmail.com	Sujan Dahal	1R119IS045	10/10
15	Saugattiwari2000@gmail.com	SAUGAT TIWARI	1R119IS040	10/10
16	chinthanasajjan2001@gmail.com	Chinthana M	1R119IS015	10/10
17	Kushalkushh7@gmail.com	Kushal C	1R119IS023	8/10
18	rakshithapavan04@gmail.com	Rakshitha H S	1R119IS034	10/10
19	Vijayjay2601@gmail.com	Vijay M	1R119IS047	7/10
20	meghanameghamr1310@gmail.com	Meghana M R	1R119IS027	10/10
21	ajajurrahman1@gmail.com	Md Ajajur Rahman	1R119IS026	10/10
22	shashanksmiley143@gmail.com	Shashank S	1R119IS043	10/10
23	mdqurramhhh@gmail.com	MOHAMMED QURRAM	1R119IS029	10/10
24	tejaswinip7818@gmail.com	TEJASWINI P	1R118IS037	10/10
25	lekhrathapa0@gmail.com	Lekhraj Thapa	1R115IS350	7/10
26	alokendughosh.ag@gmail.com	ALOKENDU GHOSH	1R119IS004	10/10
27	awashyak009poudel@gmail.com	Awashyak poudel	1R119IS007	8/10
28	bikram.gupta1011@gmail.com	Bikram gupta	1R119is011	10/10
29	asinghofficial01@gmail.com	Abhinav	1R118IS001	9/10
30	dipannita.dey2018@gmail.com	Dipannita Dey	1R119IS019	10/10
31	soovashseengh@gmail.com	Subhash singh	1R119IS044	9/10
32	birendrathakur870@gmail.com	Birendra kumar thakur	1ri19is012	10/10
33	sayakpaul2023@gmail.com	Sayak Paul	1R119IS042	10/10
34	dpsingh2707@gmail.com	Durga Prasad Singh	1R119IS020	8/10
35	Chaithragowda31001@gmail.com	Chaithra Shree M N	1R119IS013	10/10
36	dhanyavarsha2001@gmail.com	Dhanya Shree M	1R119IS017	10/10
37	rupampal48@gmail.com	Rupam Pal	1ri19is037	7/10
38	kurmibabita848@gmail.com	Babita Kurmi	1ri19is009	10/10


 4/9/2019
 HOD of Information Science Engineering
 R.R. Institute of Technology
 Hesarghatta Main Road,
 Chalkubalavara, Bangalore-90.



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Computer Science and Engineering

Date: 29/07/2020

Report on OOPS with Java Quiz

Online quiz on "OOPS with Java" was organized by CSE department for 4th, 6th, and 8th semester students of CSE/ISE Department and for faculties of RRIT Bangalore on 29th July 2020. The main objective of this java quiz was to make the participants to know the object oriented programming, which will be very useful for cracking the technical rounds in their interviews and to update their knowledge. It also helped participants to learn why Java is useful for the design of desktop and web applications and how to implement object-oriented designs like GUI components, java API's, classes, objects, threads in Java. Twenty Five multiple choice questions (MCQ's) prepared for organizing the quiz On OOPS with Java which included the concepts of "objects" that contain data and methods, Inheritance, Constructors, Polymorphism, Exceptional handling etc. The primary purpose of object-oriented programming is to increase the flexibility and maintainability of programs.. also learn designed to be easy to use and is therefore easy to write, compile, debug, and learn than other programming languages. object-oriented . This allows you to create modular programs and reusable code. 77 Participant participated in the quiz in that 72 students and 5 Faculties are participated .

[Handwritten Signature]
29/07/2020

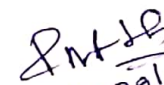
HOD

Head of Department
Department of Computer Science & Engg.
R.R. Institute of Technology
Hesaraghatta Main Road,
Chikkabanavara, Bangalore

Quiz on "OOPS with Java" - 29th July 2020

sno	Full Name	Username	USN	Marks score
1	Dantene Davis	dantenedavis@gmail.com	IR119CS001	5.00 / 25
2	rupesh	sdfs@gmail.com	IR119CS002	3.00 / 25
3	Suraj Sapkota	nike.suraj3@gmail.com	IR119CS003	2.00 / 25
4	Nithin k	nithink666@gmail.com	faculty	10.00 / 25
5	SHIV NARAYAN THAKU	thakurshivnarayan2@gmail.com	IR119CS005	25.00 / 25
6	Sujit	vivekbone821901@gmail.com	IR119CS006	6.00 / 25
7	VIVEK KUMAR	vivekkumarkushwaha780@gmail.com	IR119CS007	25.00 / 25
8	Sanjay Kumar	kumarspsanjay@gmail.com	IR119CS008	5.00 / 25
9	Javeed	javeedchoudary23@gmail.com	IR119CS009	6.00 / 25
10	Dhananjaya M K	dhana.05mk@gmail.com	faculty	8.00 / 25
11	Mohan krishna g	mohankrishnag1998@gmail.com	IR119CS011	6.00 / 25
12	Harshitha J	harshithadimpi01113@gmail.com	IR119CS012	24.00 / 25
13	SACHIN S	sachinsparsh525@gmail.com	IR119CS013	15.00 / 25
14	Suman Kr Dey	Suman.sk12@gmail.com	IR119CS014	25.00 / 25
15	Yashwanth TU	yashwanthtu1999@gmail.com	IR119CS015	5.00 / 25
16	Shreya Bajpai	2899shreya@gmail.com	IR119CS016	25.00 / 25
17	Aadarsh Kumar Singh	singhaadarsh33@gmail.com	IR119CS017	25.00 / 25
18	YN Prathap Reddy	prathulvl@gmail.com	IR119CS018	11.00 / 25
19	Preethi D	preethid1871999@gmail.com	IR119CS019	24.00 / 25
20	Dipendra Kumar mahato	deewanraaz47@gmail.com	IR119CS020	24.00 / 25
21	SAPNA SINGH	sapnasingh1429@gmail.com	IR119CS021	25.00 / 25
22	DEVENDRA SAHU	devendra0039@gmail.com	IR119CS022	12.00 / 25
23	Jayanth Jain D V	Jayanth.jain11@gmail.com	IR119CS023	25.00 / 25
24	Sudip Sarkar	sarkarsudip465@gmail.com	IR119CS024	23.00 / 25
25	Saibal Maity	sbl.mty.98@gmail.com	IR119CS025	24.00 / 25
26	Faiz Mohammad dangar	faizmohammaddangar@gmail.com	IR119CS026	14.00 / 25
27	Akshay Rao.J	akshayraojjs1551@gmail.com	IR119CS027	24.00 / 25
28	Vinutha g s	vinuthags2421999@gmail.com	IR119CS028	22.00 / 25
29	Vidya K S	vibhavidyaks@gmail.com	IR119CS029	25.00 / 25
30	Ramya E	ramyac27042000@gmail.com	IR119CS030	25.00 / 25
31	SWETA GUPTA	sg8851604@gmail.com	IR119CS031	23.00 / 25
32	ROSHAN KUMAR PANDI	ricky.kumar93082@gmail.com	IR119CS032	25.00 / 25
33	S AISHWARYA RAO	saishwaryarao@gmail.com	IR119CS033	15.00 / 25
34	Dipannita Dey	dipannita.dey2018@gmail.com	IR119CS034	25.00 / 25
35	Md Arman Khan	arman18969@gmail.com	IR119CS035	25.00 / 25
36	Varsha K	varshanandadeepa@gmail.com	IR119CS036	12.00 / 25
37	Rakshitha j	rakshitharashmi2000@gmail.com	IR119CS037	25.00 / 25
38	Shaik.Nasreen	shaiknasreen002@gmail.com	IR119CS038	23.00 / 25
39	Debojyoti Mondal	mondal.debojyoti17@gmail.com	IR119CS039	14.00 / 25
40	Jyothi R	xyz21@gmail.com	Faculty	7.00 / 25
41	Lavanya H S	hslavanya0798@gmail.com	IR119CS041	15.00 / 25
42	Amit Kumar	amitkumar821112amit@gmail.com	IR119CS042	24.00 / 25
43	Vignesh P	vignesh.rocks050@gmail.com	IR119CS043	22.00 / 25
44	Jahnvi Nadgir	janvinadgir01@gmail.com	IR119CS044	24.00 / 25
45	Chandana.s	seethanna.la@gmail.com	IR119CS045	10.00 / 25
46	Vaishnavi S Nadgir	vaishnavinadgir40@gmail.com	IR119CS046	25.00 / 25
47	Sahana. R	sahana17399@gmail.com	IR119CS047	23.00 / 25

48	shruthi s	h@gmail.com	faculty	10.00 / 25
49	Rima Goit	goitrima@gmail.com	1RI19CS049	25.00 / 25
50	Madhu L	madhul8747@gamil.com	1RI19CS050	25.00 / 25
51	ASHWINI R	rashwini837@gmail.com	1RI19CS051	22.00 / 25
52	Rupam Pal	rupampal48@gmail.com	1RI19CS052	20.00 / 25
53	Bhoomika sp	bhoomikalokesh17@gmail.com	1RI16CS008	18.00 / 25
54	SHANTHARUBAN A	rubanrahul2427@gmail.com	1RI16CS013	22.00 / 25
55	PRATHIBHA I BILAGI	rahulrandy700@gmail.com	1RI17CS002	25.00 / 25
56	Naveed Ahmed	naveedna1999@gmail.com	1RI17CS006	13.00 / 25
57	R Gaganashree	gaganashreer@gmail.com	1RI17CS007	25.00 / 25
58	NITHISH K	nithishkumaran679@gmail.com	1RI17CS008	7.00 / 25
59	Pallavi K	pallavik855@gmail.com	1RI17CS009	25.00 / 25
60	PARNANDI V H GURUN	harisarma1038@gmail.com	1RI17CS010	25.00 / 25
61	Md Ajajur Rahman	ajajurrahman1@gmail.com	1RI17CS012	24.00 / 25
62	Chinthana. M	chinthanasajjan2001@gmail.com	1RI17CS014	23.00 / 25
63	DURGA PRASAD SINGH	dpsingh2707@gmail.com	1RI17CS016	25.00 / 25
64	Dr. J. Selvin Paul Peter	selvinpj@srmist.edu.in	faculty	20.00 / 25
65	Meghana BN	meghanabn2017@gmail.com	1RI17CS021	25.00 / 25
66	Rakshitha H S	Rachurakshitha6361@gmail.com	1RI17CS023	25.00 / 25
67	Mohammed Qurram	mdqurramhhh@gmail.com	1RI17CS025	25.00 / 25
68	Ashfaque Anjum	anjumashfaq078@gmail.com	1RI17CS026	25.00 / 25
69	Brijesh Kumar Nishad	brijeshnishad777@gmail.com	1RI14CS025	8.00 / 25
70	Likitha Varshini	likithavarshini2001@gmail.com	1RI15CS027	25.00 / 25
71	PADMAVATHI H G	padma.csebce@gmail.com	1RI15CS046	13.00 / 25
72	Debpriya Roy	roydebur97@gmail.com	1RI15CS076	25.00 / 25
73	Saugat Tiwari	saugattiwari999@gmail.com	1RI16CS028	18.00 / 25
74	Abhishek Singh	abhisheksingh2844@gmail.com	1RI16CS038	14.00 / 25
75	Vijay M	vijayjay2601@gmail.com	1RI16CS047	23.00 / 25
76	varsha	varsha@gmail.com	1RI17CS400	8.00 / 25
77	BASAMMA UMESH PAT	bupatil25@gmail.com	1RI16CS007	25.00 / 25


 Head of Department
 Department of Computer Science & Eng.
 R.R. Institut of Technology
 Hesaraghatta Main Road
 Chikkabanavara Bangalore



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Computer Science & Engineering

Assignment-1

Academic Year	2018-19
Batch	2021-22
Year/Semester	4 th Year/8 th Semester
Course Name	Storage Area Network
Course Code	18CS822
Name of the Instructor	Prof. Shruthi.S

Sl. No	Assignment Questions	COs
1	Briefly explain the evolution of storage technology and architecture with a neat diagram.	CO2
2	State what is Data center? Illustrate the core elements of Data center with a diagram.	CO1
3	Discuss virtualization and cloud computing in detail.	CO3
4	List and explain the Components of Disk Drive with a neat diagram	CO1
5	Illustrate the Logical Components of Connectivity with neat diagram	CO1

Course In Charge

HOD

Department of Computer Science &
R.R. Institute of Technology
Hesaraghatta Main Road
Chikkabanavara, Bengaluru



PKM Educational Trust
R. R. Institute of Technology

Affiliated to VTU Bengaluru and Approved by AICTE - New Delhi. Recognized by Govt. of Karnataka.
Accredited by NAAC with 'B+'
Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 096


Department of Computer Science & Engineering

Assignment-1

Academic Year	2021-22
Batch	2019-23
Year/Semester	3 rd Year/5 th Semester
Course Name	Computer Networks and Security
Course Code	18CS52
Name of the Instructor	Lakshmidevi H M

Sl. No	Assignment Questions	COs
1.	Give the principles and explain the architectures of network applications?	CO1
2.	List and Describe the two transport layer protocols in detail?	CO1
3.	Paraphrase how application processes communicate through a socket with a diagram?	CO1
4.	Discuss four Transport Services available to applications?	CO1
5.	Gather the concepts of Web and HTTP?	CO1
6.	With a general format, Brief out HTTP request and response messages?	CO1
7.	Distinguish between HTTP non-persistent and persistent connections?	CO1
8.	Indicate the DNS Message format in detail?	CO1


Course In Charge


HOD
Head of Department
Department of Computer Science & Engineering
R.R. Institute of Technology
Hesaraghatta Main Road
Chikkabanavara, Bengaluru

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'
Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Mechanical Engineering**Final project presentation schedule**

Group	USN	Student names	Guide name	Date & Time
Group-1	1RI17ME013	Prem Kumar N	Dr. Amarnath	21/06/22 1.30 - 2.00 PM
	1RI18ME008	Gurukiran		
	1RI16ME015	Jerin bm		
	1RI19ME400	Kishan G Gaikwad		
Group-2	1RI18ME004	Anjan Gowda H	Dr. Manjunatha	
	1RI16ME019	Naveen Kumar Mehta		
	1RI18ME022	Ramkumar Devaraddi		
	1RI18ME033	Y Sadasivareddy		
Group-3	1RI18ME030	Tabrej Alam	Dr. Channabasavaraj	
	1RI18ME003	Amit Kumar Bhagat		
	1RI18ME031	Trinayan Borthakur		
Group-4	1RI18ME026	Sagar Nyaupane	Mr. Lohith	21/06/22 2.00 – 2.30 PM
	1RI18ME028	Saroj Budhathoki		
	1RI19ME401	Sourav nath		
	1RI18ME029	Sunil Chai		
Group-5	1RI18ME012	Jefin Varghese	Mr. Murali	21/06/22 2.30 – 3.00 PM
	1RI18ME017	Mebin Mathew		
	1RI18ME027	Sanjith Sunny		
	1RI18ME001	Abishek Johny		
Group-6	1RI18ME013	Kamrul Ansari	Mr. Bharath	
	1RI18ME019	Narayan Prasad Pokharel		
	1RI18ME025	Rizwan Razak		
Group-7	1RI18ME023	Ravi Kumawat N	Mr. Srinivas K R	
	1RI18ME021	Rahul Prasad Singh Yadav		
	1RI18ME020	Pronob Jyoti Gogoi		
Group-8 (2015 Scheme)	1RI14ME070	Sagar Gowda M V	Mr. Harish	21/06/22 3.00- 3.30 PM
	1RI15ME017	Ashutosh Kumar		
	1RI15ME098	Sangeeth Dharshan S		
	1RI17ME401	Debika Mukherjee		
Group-9 (2017 Scheme)	1RI17ME003	Adarsh A	Mr. Deepak A R	21/06/22 3.30 – 4.00 PM
	1RI16ME037	Vishnu Raveendran		
	1RI15ME055	Mahfoozalam		
Group-10 (2017 Scheme)	1RI18ME403	Md Imroz Khan	Dr. Channabasavaraj	
	1RI17ME005	Arun Kumar K		
	1RI18ME408	Vikrant Sangam		

es u

Handwritten signature
HOD of Mechanical Engineering
R.R. Institute of Technology
Hesaraghatta Main Road,
Chikkabanavara, Bangalore -



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Mechanical Engineering

List of final year project batch with guide- AY-2021-22

Sl.No	Group	USN	Student names	Guide name
1	Group-1	1RI17ME013	Prem Kumar N	Dr. Amarnath.G
2		1RI18ME008	Gurukiran	
3		1RI16ME015	Jerin bm	
4		1RI19ME400	Kishan G Gaikwad	
5	Group-2	1RI18ME004	Anjan Gowda H	Dr. Manjunatha
6		1RI16ME019	Naveen Kumar Mehta	
7		1RI18ME022	Ramkumar Devaraddi	
8		1RI18ME033	Y Sadasivareddy	
9	Group-3	1RI18ME030	Tabrej Alam	Dr. Channabasavaraj
10		1RI18ME003	Amit Kumar Bhagat	
11		1RI18ME031	Trinayan Borthakur	
12	Group-4	1RI18ME026	Sagar Nyaupane	Mr. Lohith
13		1RI18ME028	Saroj Budhathoki	
14		1RI19ME401	Sourav nath	
15		1RI18ME029	Sunil Chai	
16	Group-5	1RI18ME012	Jefin Varghese	Mr. Murali
17		1RI18ME017	Mebin Mathew	
18		1RI18ME027	Sanjith Sunny	
19		1RI18ME001	Abishek Johny	
20	Group-6	1RI18ME013	Kamrul Ansari	Mr. Bharath
21		1RI18ME019	Narayan Prasad Pokharel	
22		1RI18ME025	Rizwan Razak	
23	Group-7	1RI18ME023	Ravi Kumawat N	Mr. Srinivas K R
24		1RI18ME021	Rahul Prasad Singh Yadav	
25		1RI18ME020	Pronob Jyoti Gogoi	
26	Group-8 (2015 Scheme)	1RI14ME070	Sagar Gowda M V	Dr. Amarnath.G
27		1RI15ME017	Ashutosh Kumar	
28		1RI17ME401	Debika Mukherjee	
29	Group-9 (2017 Scheme)	1RI17ME003	Adarsh A	Mr. Deepak.A.R
30		1RI16ME037	Vishnu Raveendran	
31		1RI15ME055	Mahfooz alam	
32	Group-10 (2017 Scheme)	1RI18ME403	Md Imroz khan	Dr. Channabasavaraj
33		1RI17ME005	Arun kumar K	

HOD of Mechanical Engineering
R.R. Institute of Technology
Hesaraghatta Main Road,
Chikkabanavara, Bangalore - 560

PRINCIPAL
R.R. INSTITUTE OF TECHNOLOGY
Chikkabanavara, Bangalore - 560 090.



Since 1993

PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi,

Recognised by Govt. of Karnataka,

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Mechanical Engineering

FINAL YEAR PROJECT GROUP LIST 2020-2021,

Sl No	Batch No	Student Name	USN	Project Title	Guides
1	1	RUBEL HOSSAIN	IR118ME406	Pneumatic Sheet Metal Cutting	Mr.Murali
2		RAJUG	IR116ME022		
3		IBRAHIM S	IR117ME010		
4		DINESH ABIRAM	IR117ME007		
5	2	SANDIP GIRI	IR117ME016	Design Of Dual Axis Self-Powered Solar Tracking PV Panel	Mr.Lohith Kumar
6		SATISH KUMAR TRIPATHI	IR117ME017		
7		SHYAM NAU	IR117ME018		
8		TAHEER DHUNIYA	IR117ME021		
9	3	ABHISHEK H	IR114ME001	Fabrication Of Low Cost Portable Multipurpose Agriculture Machine For Sorting And Pressuring Of Onion/Potato	Dr.Manjunath G
10		AJAY L R	IR115ME003		
11		ANANTH B R	IR115ME011		
12		HARSHA GK	IR115ME043		
13	4	MOHAMMED RAFI K P	IR115ME064	Design And Fabrication Of Eddy Current Braking System	Dr.Amarnath.G
14		PRANAV PRATHAP	IR116ME047		
15		ABHIJIT C R	IR116ME045		
16		ATHUL ANILKUMAR	IR115ME018		
17	5	SOORAJ	IR117ME019	Redesigning Of Uav Using Gyroscopic Gimbal Framework	Mr.ShridharMurthy
18		ULLAS K V	IR117ME022		
19		SAJIN A S	IR117ME015		
20		JITHIN RAJ R	IR118ME402		
21	6	AADITYA REGMI	IR117ME001	Fabrication Of Solar And Dynamo Power Driven Cycle	Mr.Bharath.K
22		GAURI NARAYAN GIRI	IR117ME008		
23		GYANU DAHAL	IR117ME009		
24		QAMRUZZAMA KIIAN	IR117ME014		
25	7	IMRAN R	IR114ME030	Redesigning Scissor Lift Shoe For Industrial Application	Mr.Harish.M.R
26		BHARATH J	IR116ME403		
27		DEEPAK KUMAR S	IR116ME408		
28		MANSI KUMAR YADAV	IR114ME092		
29	8	SURESH ASHU	IR116ME428	Design And Fabrication Of Hoverboard	Dr.Channabasavaraj.S
30		ROSHAN KUMAR SAH	IR115ME121		
31		SUNCHIT LAWANIYA	IR114ME082		
32		BHARATH R	IR116ME008		
33	9	GIRISH M A	IR116ME012	Design And Fabrication Of Pneumatic Collapsible Steering System	Dr.Amarnath.G
34		SIDDHARTH N	IR115ME104		
35		VIJAY B TOTIGER	IR116ME430		
36	10	VINOD G	IR116ME431	Power Generation Through Electromagnetic Suspension	Dr.Channabasavaraj.S
37		KARTHIK M HIREMATH	IR116ME416		
38		PARASH NATH JHA	IR115ME071		

S. S. Sankar
 HOD of Mechanical Engineering
 R.R. Institute of Technology
 Chikkabanavara, Bengaluru

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka

Aceredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Mechanical Engineering

Final Year Project batch list (2019-2020)

	Batch No	USN	Student Name	Title of the Project	Project carried at	Internal Guide
1	1	1RI16ME020	PAVAN B P	PUSH PLATE TIDAL POWER PLANT	RRIT	Dr.Channabasavaraj
2		1RI16ME043	SUNIL B			
3		1RI17ME404	RAKSHITH Y T			
4		1RI17ME405	SHASHANK			
5	2	1RI16ME419	MANISH S P	REMOTE CONTROLLED PICK AND PLACE ROBOTIC VEHICLE	RRIT	Dr.Amarnath.G
6		1RI16ME405	CHANDAN D S			
7		1RI15ME048	GAGAN J			
8		1RI16ME414	GANESH R			
9	3	1RI16ME017	MANJIL POUDEL	LOW CYCLE FATIGUE ANALYSIS OF HEAT TREATED DUPLEX STAINLESS STEEL	RRIT	Dr.L.Arulmani
10		1RI15ME032	PITAMBAR CHAUDHARY			
11						

PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Mechanical Engineering

		1RI16ME030	SHYAM KISHOR MUKHIYA			
12		1RI16ME040	SHISHIR ACHHAMI			
13	4	1RI15ME025	BHARATH N	SOLAR TRACKING S/M WITH IOT FACILITY	RRIT	Prof.Murali
14		1RI15ME045	HITHESH N M			
15		1RI15ME050	KAPU BHANU PRAKASH			
16		1RI15ME058	MANOJ			
17	5	1RI15ME009	AMDADUL HAQUE	MECHANICAL PROPERTIES OF AEROSPACE GRADE ALUMINUM ALLOY	RRIT	Prof.Nagesh kumar
18		1RI16ME005	ARUNKUMAR YADAV			
19		1RI16ME035	UTTAM SHAH			
20		1RI16ME025	SANDEEP PRASAD YADAV			
21	6	1RI15ME069	NITISH J H	SOLAR ENERGY BASED WATER PURIFICATION SYSTEM	RRIT	Prof.Amarnath.G
22		1RI15ME037	DHUSHYANTKUMAR N			
23	7	1RI16ME034	SUSHIL KUMAR YADAV	MICROSTRUCTURE	RRIT	Prof.Shridharmurthy

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Mechanical Engineering

24		1RI16ME010	BIJAY KUMAR MANDAL	ANALYSIS OF DUPLEX STAINLESS STEEL		H N
25		1RI16ME027	SAROJ KUMAR YADAV			
26		1RI15ME027	BIJENDRA KUMAR			
27	8	1RI17ME402	HEMANTH KUMAR A R	AUTOMATED FLOOR CLEANING MACHINE	RRIT	Prof.Murali
28		1RI16ME013	GURU KIRAN L M			
29		1RI17ME406	SHRIDHAR M			
30		1RI16ME009	BHARTH R			
31	9	1RI14ME006	AKASH M	DESIGN AND FABRICATION OF MECHANICAL FOOT STEP POWER GENERATOR	RRIT	Prof.Murali.GE
32		1RI16ME402	ANITH KUMAR R			
33		1RI14ME021	DEVARAJ D R			
34		1RI14ME036	MADHUSUAN B S			
35	10	1RI16ME410	DINESH L	REGENERATIVE BRAKING SYSTEM	RRIT	Prof.Bharath.K
36		1RI15ME114	VINAY KUMAR A V			
37		1RI16ME046	INDRESH MP			

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Mechanical Engineering

38		1RI16ME407	YOGESH JM			
39	11	1RI14ME025	GAGAN N	DESIGN AND FABRICATION OF BIO ENHANCING BOOTS	RRIT	Prof.Murali.GE
40		1RI15ME041	KENCHESH H N			
41		1RI16ME046	ANANDU K S			
42		1RI15ME092	SANJAY S			
43	12	1RI16ME024	SANDEEP D	MOTORISED WALL PAINTING MACHINE	RRIT	Dr.Arulmani.L
44		1RI16ME026	SANGAYYA I T			
45		1RI16ME018	MANOJ KUMAR V			
46		1RI16ME007	BASAVARAJ E G			


HOD -ME

HOD of Mechanical Engineering
R.R. Institute of Technology
Hesaraghatta Main Road,
Ch Chikkabanavara, Bangalore - 56

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Mechanical Engineering

Final Year Project batch list (2018-2019)

	Batch No	USN	Student Name	Title of the Project	Project carried at	Internal Guide
1	1	1RI16ME423	Rajesh.N	Design, fabrication and analysis of pneumatic ocean waves energy convertor	RRIT	Dr.Amarnath.G
2		1RI16ME407	Darshan.K.V			
3		1RI16ME411	Gagan.J			
4		1RI16ME432	Yathish.K.J			
5	2	1RI15ME053	Lokesh.B	Experimentally validated numerical studies on heat transfer behaviour in laser beam welding of stainless steel Experimentally validated numerical studies on heat transfer behaviour in laser beam welding of	RRIT	Dr.Chennabasava raj
6		1RI15ME031	Chandra kishor mandal			
7		1RI15ME048	Jai shankar singh			
8		1RI16ME414	Gurumurthy			

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Mechanical Engineering

				stainless steel plates		
9	3	1RI14ME013	Bakkesh.H.D	Fabrication of solar air cooler	RRIT	Dr.Amarnath.G
10		1RI15ME032	Chandra kumar.N			
11		1RI15ME035	Deepak.L.S			
12		1RI14ME040	Manju.D			
13	4	1RI14ME077	Sharath.S	Mechanical property evaluation of heat treated duplex stain less steel	RRIT	Dr.L.Arulmani/ Prof.Shridharm urthy H N
14		1RI15ME011	Vignesh.P			
15		1RI15ME076	Pinak das			
16		1RI14ME053	Pranav.S			
17	5	1RI15ME066	Nagesh.S	Studies on thermo electrical generators	RRIT	Prof.Shridharm urthy H N
18		1RI15ME074	Shrikanth patil			
19		1RI15ME054	Madhukumar.V			
20		1RI16ME418	Mahesh hukkeri			

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi ,Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Mechanical Engineering

21	6	1RI15ME010	Amulya.S	Computational studies on heat transfer behaviour in FSW process of dissimilar metals	RRIT	Prof.Keerthi prasad
22		1RI15ME013	Anantha prasad jain.B.R			
23		1RI15ME024	Bharath.K			
24		1RI16ME420	Megha shree.B.J			
25	7	1RI16ME406	Chendan.S	Effect of hardfaced deposites on mild steel plates by using MMAW process	RRIT	Prof.Manujunat h.GD
26		1RI16ME400	Amith nandoor			
27		1RI16ME422	Nikhil.L.M			
28		1RI16ME433	Yogaprasad			
29	8	1RI14ME042	Manoj.M.poojari	Design Design and fabrication of pneumatic powered vehicle	RRIT	Prof.Gururaj Naik
30		1RI14ME047	Nishanth.S			
31		1RI16ME429	Tejas kumar.S			
32		1RI16ME425	Sagar.M.S			
33	9	1RI15ME077	Pradip panthi	Fabrication of	RRIT	Prof.Prasanth.K

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Mechanical Engineering

34		1RI15ME040	Ganshyam Tiwari	Environmental friendly air purifier		
35		1RI15ME062	Milan Dhakal			
36		1RI15ME110	Veipunii Johnny.R.H			
37	10	1RI16ME424	Rakshith.L	Performance test on four stroke petrol/diesel engine by the fuel produced from waste plastics	RRIT	Prof.Nagesh kumar
38		1RI15ME042	Harsha.B			
39		1RI15ME044	Hemanth.P.R			
40		1RI16ME409	Dhanush.G			
41	11	1RI15ME107	Tejas.G.V	Levitating frictionless vertical wind turbine	RRIT	Prof.Bharath.K
42		1RI15ME068	Naveen.R			
43		1RI15ME115	Vishnu.V.S			
44		1RI16ME417	Kishore kumar.G			
45	12	1RI15ME029	Binod sherpali.	Solar powered automatic cow gung cleaning system for	RRIT	Prof.Murali.GE
46		1RI15ME079	Prakash singh			

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Mechanical Engineering

47		1RI15ME005	Akhil s.kumar	cow shed		
48		1RI15ME124	Chintu S.Karup			
51	13	1RI16ME427	Shasidhar.M		RRIT	
52		1RI16ME426	Santhosh.G.V	Multipurpose leaf harvester		Prof.Prasanth.K
53		1RI15ME084	Praveen kumar			
54		1RI15ME113	Vinay.B			
55	14	1RI15ME122	Ajeesh Prasad	Design of shaft driven bicycle	RRIT	Dr.Chennabasava raj/Prof.Naveen
56		1RI15ME123	Akhil raj			
57		1RI15ME125	G.Gokul			
58		1RI15ME126	Kannan suresh			

Z. dhy
PROJECT CO-ORDINATOR

S. S. S.
HOD of Mechanical Engineering
R.R. Institute of Technology
Hesaraghatta Main Road,
Chikkabanavara, Bangalore - 90



Since 1993

PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Civil Engineering

PROJECT BATCHES ACADEMIC YEAR 2019-20

Date - 04/11/2019

BATCH	USN	STUDENT NAME	PROJECT TITLE	GUIDE NAME	POs and PSO
1	IRI16CV017	Deepesh kumar yadav	Study on strength of granite powder concrete and check for chloride attack ^{R1}	Gunasheela P	PO1,PO2,PO3,PO4, PO8,PO9,PO10,PO11, PO12, PSO1,PSO2
	IRI16CV023	Kavya K H			
	IRI16CV008	Arpitha M P			
	IRI16CV021	K R Venkatesha			
2	IRI16CV436	Rishikesh jivan badgujar	Analysis and Re design of Jalahalli road ⁰¹	Madhumathi K	PO1,PO2,PO3,PO4, PO7,PO8,PO10,PO11 PO12, PSO1,PSO2
	IRI16CV025	Komal			
	IRI17CV424	Sujit Mallik			
	IRI17CV410	MD Himayatullah			
3	IRI15CV035	Kavyashree s	Seismic analysis of high rise building on sloping ground ^A	Jagadeesh B N	PO1,PO2,PO3,PO4,PO5, PO8,PO9,PO10,PO11 PO12, PSO1,PSO2
	IRI14CV085	Vinod Kumar K			
	IRI14CV055	Rakesh S			
	IRI15CV081	Suhas R C			
4	IRI15CV045	Madhushalini D	Basic seismotectonic evaluation based on limaments and historic events ^A	PASEEDA E	PO1,PO2,PO3,PO4,PO5, PO8,PO9,PO10,PO11, PO12, PSO1,PSO2
	IRI16CV087	Thippeswamy C			
	IRI16CV026	K U Janabai			
	IRI15CV085	Suraj D			
5	IRI16CV050	Remika Lyngdoh	Assessment and impact of disposal on site G/W soil quantity ^{Soc}	Gurubasavaraja S G	PO1,PO2,PO4,PO6, PO7,PO8,PO9,PO11, PO12, PSO1,PSO2
	IRI16CV450	Tumke Gadi			

	IRI17CV423	Shubangar paul			
	IRI16CV082	Lefuma Stephen Monyane			
6	IRI17CV425	Tanisha Biswas	Experiment investigation of semitransparent concrete by using plastic optical fiber	Jagadeesh B N	PO1,PO2,PO3,PO4,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	IRI14CV059	Rutvik K			
	IRI16CV071	Sushma B			
	IRI15CV038	Lakshmi narasimhaC			
7	IRI16CV015	Bramachari paswan	Analysis and design of elevated inside water tank and comparative study in different wind zone	ROHITH SHENOY R S	PO1,PO2,PO3,PO4,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	IRI16CV010	Bablu chaudhary			
	IRI16CV028	Manish yadav			
	IRI16CV061	SHAFQUT KHALIQ			
8	IRI17CV417	Parli Das	Experimental study of rare surface and strength characteristic of chipped steel fiber reinforced concrete	Deepika R	PO1,PO2,PO3,PO4,PO8,PO9,PO11,PO12,PSO1,PSO2
	IRI16CV067	Sikendra Kumar Mukhiya			
	IRI16CV413	Ibadahun Mary L			
9	IRI16CV033	Mokhtar ansari	Design of Eco-friendly campus	K V Manjunath	PO1,PO2,PO3,PO4,PO7,PO8,PO9,PO10,PO12,PSO1,PSO2
	IRI16CV032	Mohammad jahir dewan			
	IRI16CV440	SAROJ KADHKA			
	IRI16CV029	Manoj adhikari			
10	IRI16CV039	Prabina sharma	performance analysis of outrigger structure under dynamic loading and comparison of diagonal structure	Deepika R	PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	IRI16CV084	Anfoz Ali M A			
	IRI15CV037	KUMARASWAMY N M			
	IRI16CV005	Amit prasad shah			
11	IRI17CV400	Aishree debbarma	Study on the behavior of copper slag as partial replacement of FA in DBM	Priyadarshini H P	PO1,PO2,PO3,PO4,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	IRI14CV069	Shreehari G V			
	IRI16CV020	Jigyash jyothi kalita			
	IRI15CV053	MOHINI SUBHA			

12	1RI16CV074	Vijay M	Concrete mix optimization using multivariate Technique	R S Patil	PO1,PO2,PO3,PO4,PO8,PO9,PO10,PO11,PO12, PSO1,PSO2
	1RI16CV068	Soundarya K			
	1RI14CV063	Sampath H L			
	1RI16CV073	Tejas H M			
13	1RI16CV012	Bhupal singh ale	Analysis & design of Multilevel car parking for various seismic zones	ROHITH SHENOY R S	PO1,PO2,PO3,PO4,PO5,PO7,PO8,PO9,PO10,PO11,PO12, PSO1,PSO2
	1RI16CV036	Niraj kumar jha			
	1RI17CV409	Manjunath H			
	1RI16CV014	Bimash Bhattasai			
14	1RI16CV042	Priyanka Thakur	Performance of concrete by partial Replacement of in aggregate using the plastic waste	BHOJE GOWDA V T	PO1,PO2,PO3,PO4,PO7,PO8,PO9,PO10,PO11,PO12, PSO1,PSO2
	1RI16CV406	Harakabhavi Basavanagowda			
	1RI14CV021	Sachin Ghannale			
	1RI17CV428	Sudeep A K			
15	1RI16CV086	Sindhu M S	Traffic Junction & solution at Goraguntepalya junction	Gulapalli Sankara	PO1,PO2,PO3,PO4,PO7,PO8,PO9,PO10,PO11,PO12, PSO1,PSO2
	1RI16CV035	Nayana M			
	1RI14CV023	Harikrishna B			
	1RI15CV067	Rohan G S			
16	1RI16CV043	Raghbendra Yadav	Soil structure interaction of Multistory Building supported to different types of soil & Foundation	BHOJE GOWDA V T	PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10,PO11,PO12, PSO1,PSO2
	1RI16CV004	Amar kumar gupta			
	1RI16CV054	Rupesh Kumar Yadav			
	1RI16CV051	Rohit Katwal			
17	1RI16CV077	Yashas K M	Partial replacement of ceramic waste to cement & check for sulphate attack	Gunasheela P	PO1,PO2,PO3,PO4,PO7,PO9,PO10,PO11,PO12, PSO1,PSO2
	1RI16CV016	Charan R			
	1RI17CV404	Divya Y K			
	1RI16CV079	Harish D			
18	1RI16CV044	Rajkishor Sha	Concrete mix optimization of High volume FA CGH	R S Patil	PO1,PO2,PO3,PO4,PO8,PO9,PO10,PO11,PO12, PSO1,PSO2
	1RI15CV063	Rashmi B M			
	1RI16CV056	Samim Safi			
	1RI17CV427	Lohith C M			

19	IRI16CV076	Vinod S	Analysis of structure ^H with & without column in different seismic zones using Etabs	Sharmila H C	PO1,PO2,PO3,PO4 ,PO5,PO8,PO9,PO 11,PO12, PSO1,PSO2
	IRI16CV078	Yashaswini Yadav H A			
	IRI15CV091	Waseem ali khan			
20	IRI17CV422	Sheraj Ahamad	Design of Sewage treatment plant in RRIT	Priyadarshini H P	PO1,PO2,PO3,PO4 ,PO6,PO7,PO8,PO 9,PO10,PO11,PO1 2, PSO1,PSO2
	IRI16CV060	Santhosh Kumar Yadav			
	IRI14CV061	Sachin Ramesh			
	IRI17CV408	Jaichand kumar gupta			
21	IRI16CV048	Ram Narayan Yadav	Rejuvenation f Chikkabanavara lake	Ranganathan B A	PO1,PO2,PO3,PO4 ,PO7,PO8,PO9,PO 11,PO12, PSO1,PSO2
	IRI14CV025	Harshitha G N			
	IRI16CV080	Kiran J			
	IRI15CV019	Chethan.v.c			

Project Coordinator

Kanishk

HOD
Gullapalli Sankara

HOD Civil Engg.
K.R. INST. OF TECHNOLOGY
1st Floor, Bangalore - 560 024



PKM Educational Trust

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,

Accredited by NAAC with 'B+'

Since 1993

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department Of Civil Engineering

Technical Seminar Presentation Schedule for VIII Semester

2021-22

SN	Name of the student	Technical seminar title	Name of the guide	Date and	Time of presentation	
1	IRI14CV005	ANURAAG H M	Prof. Gunasheela P	19/05/2022 Thursday (Forenoon)	9:15 AM to 9:30 AM	
2	IRI15CV013	ARVIND S			mycellium bricks	9:30AM to 9:45AM
3	IRI16CV009	ASHIM GHIMIRE				9:45 AM -10:00 AM
4	IRI15CV073	SWAMY Y H	Prof. Jayadeep K S		10:00 AM-10:15 AM	
5	IRI17CV403	BHARATH C			Plastic as soil stabilizer	10:15 AM-10:30 AM
6	IRI15CV024	GIOMO LERIAK				10:30 AM-10:45 AM
7	IRI17CV054	UMMAR FAROOQ	Prof. Ranganathan B A		10:45 AM-11:00AM	
8	IRI18CV409	LITOB DEBBARMA				11:00AM-11:15AM
9	IRI18CV419	SURAJ BISWAS				11:15 AM-11:30AM
10	IRI18CV425	SUHAS S L	self compacting concrete			11:30AM-11:45AM
11	IRI17CV032	NOOTHAN D N	Slip formwork	19/05/2022 Thursday (Afternoon)	11:45PM - 12:00 PM	
12	IRI16CV075	VINAY PAMPANNA BUDDANAVAR	M0ivan technology		12:00PM -12:15 PM	
13	IRI18CV416	SHRAVANA KUMAR			12:15PM -12:30 PM	
14	IRI18CV024	KHUSHBU CHAUDHARI	construction of solar. uboot		12:30PM -12:45 PM	
15	IRI18CV034	RISHU KUMAR CHAURASIYA	positive solar building	Prof. Priyadarshini H P	12:45PM -01:00 PM	
16	IRI19CV407	SUMEHL YMBON	hazardous waste management		1:45 PM - 2:00 PM	
17	IRI16CV038	PASBHALANG THABAH	canal irrigation		2:00 PM - 2:15 PM	
18	IRI18CV007	BIKESH BHATTARAI	water saving techniques/practices		2:15PM - 2:30 PM	

19	✓	IRI18CV027	MUKESH KUMAR	design and analysis of residential building in etabs	Prof. Veerabhadragouda P Patil	19/05/2022 Thursday (Afternoon)	2:30 PM - 2:45 PM	
20	✓	IRI18CV009	CHANDRABHUSHAN MAHATO	development of carbon negative concrete block by using ferrock			2:45 PM - 3:00 PM	chnd.
21	✓	IRI17CV026	M D IMRAN ANSARI	plastic waste in road construction	Prof. Gunasheela P		3:00 PM - 3:15 PM	
22	✓	IRI18CV038	SANJAY KUMAR SAH	Pervious concrete			3:15 PM - 3:30 PM	
23	✓	IRI18CV021	JOHNSWELL SYIEM	post earthquake housing construction			3:30PM - 3:45 PM	
24	✓	IRI19CV402	BEDANTA DOWARAH	bio digester tank			3:45 PM - 4:00 PM	
25	✓	IRI18CV008	BIKRAM PRASAD SAH	remort sensing			4:00PM - 4:15 PM	Bikram
26	✓	IRI19CV401	ASHMITA DAS	construction of pavement or footpath using demolished building material	Dr. Praseeda E		4:15PM - 4:30 PM	
27	✓	IRI18CV028	PANKAJ KANOJIYA	safety in construction			4:30 PM - 4:45 PM	
28	✓	IRI6CV001	AISWARYA CS	construction management			9:15 AM to 9:30 AM	
29	✓	IRI18CV017	EVAN RAJ SUBBA	disaster management	Prof. Jayadeep K S	20/05/2022 Friday (Forenoon)	9:30AM to 9:45AM	
30	✓	IRI18CV031	PRAMOD KUMAR MAHATO	sesmic analysis of building			9:45 AM -10:00 AM	Pramod
31	✓	IRI18CV006	BAIJU PRASAD GUPTA	high performance concrete			10:00 AM-10:15 AM	Baiju
32	✓	IRI18CV012	DHARMENDRA KUMAR SAH	non destructive testing			10:15 AM-10:30 AM	
33	✓	IRI17CV034	PAON THANGJAM	Solar building	Prof. Deepika R		10:30 AM-10:45 AM	
34	✓	IRI18CV013	DHIRAJ KUMAR SAH	green concrete			10:45 AM-11:00AM	
35	✓	IRI18CV032	RAMANDIP KUMAR MAHATO	cycling infrastructure			11:00AM-11:15AM	
36	✓	IRI18CV029	PANKAJ YADAV	Artificial intelligence in civil engineering	Dr. G Sankara		11:15 AM-11:30AM	
37	✓	IRI6CV062	SHANIAHLANG LYNGDOH	Rain water harvesting			11:30AM-11:45AM	
38	✓	IRI18CV035	SACHENDRA KUMAR YADAV	Automated highway system	Dr. G Sankara		11:45PM - 12:00 PM	
39	✓	IRI18CV001	AKHILESH KUMAR YADAV	failure of flexible pavement			12:00PM -12:15 PM	
40	✓	IRI17CV044	SANGIT PANDIT	Rubberized asphalt			12:15PM -12:30 PM	
41	✓	IRI18CV039	SANTOSH KUMAR YADAV	Solar building			12:30PM -12:45 PM	
42	✓	IRI19CV404	MOHAMMED AKTHAR S A	Straw Bale construction			12:45PM -01:00 PM	
43	✓	IRI19CV406	SHASHI PREETHAM N	laminated flooring			1:45 PM - 2:00 PM	

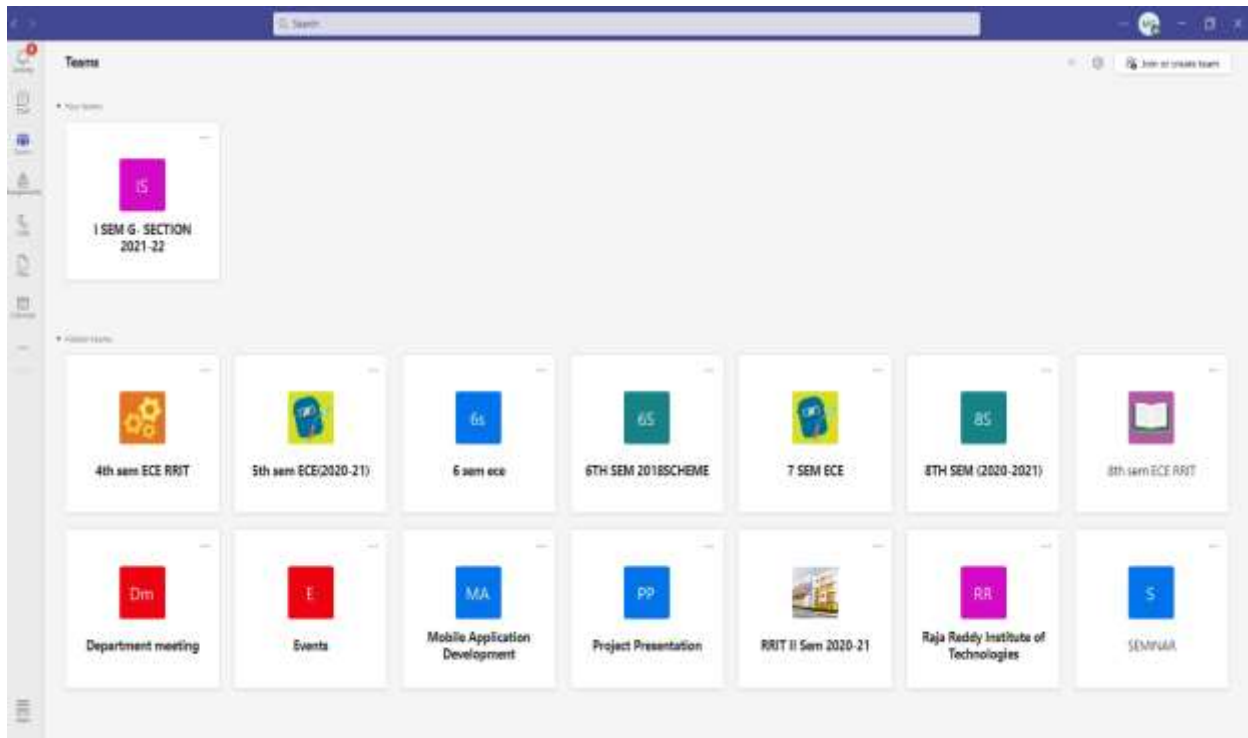
44	IRII9CV400	ARAVIND GOWDA A	Arund yettinahole drinking water project	Prof. Abhishek M	20/05/2022 Friday (Afternoon)	2:00 PM - 2:15 PM	
45	IRII8CV042	SREEHARI P P	green building			2:15PM - 2:30 PM	
46	IRII8CV003	ANUPAMA R RAIKAR	Suspension bridge			2:30 PM - 2:45 PM	
47	IRII9CV403	DIVYA H	Refuse derived fuel	Diya H		2:45 PM - 3:00 PM	
48	IRII7CV055	YASHAS S N	parking problem	yashas A		3:00 PM - 3:15 PM	
49	IRII6CV041	PREMACHAND NAIDU				3:15 PM - 3:30 PM	
50	IRII8CV030	PRAMIKA A	Bio Medical Waste Managment			3:30PM - 3:45 PM	
51	IRII7CV023	MANOJ GOWDA H K	recycled aggregate	Prof. Aishwarya V Kakade		3:45 PM - 4:00 PM	
52	IRII5CV004	AKASH C	Undegraund Recharge			4:00PM - 4:15 PM	
53	IRII9CV408	ZAID HASSAN	Groundwater Recharge in Drought area (Hubballi)			4:15PM - 4:30 PM	
54	IRII8CV037	SANDEEP KUMAR YADAV	green building			4:30 PM - 4:45 PM	
55	IRII8CV036	SAILESH SAHANI	bamboo asbuilding material	Prof. Girish G	21/05/2022 Saturday (Forenoon)	9:15 AM to 9:30 AM	
56	IRII9CV405	PINAK PANI HAZARIKA	Earthquake resistance building			9:30AM to 9:45AM	
57	IRII8CV022	JOSHAN ACHARYA	translucent concrete			9:45 AM -10:00 AM	
58	IRII8CV020	JAYANDRA RAWAL	dampner	Prof. Shilpa B R		10:00 AM-10:15 AM	
59	IRII8CV019	JAVED OSTA	plastic roads			10:15 AM-10:30 AM	
60	IRII7CV051	SUSHEEL KUMAR	noise control Cinema hall			10:30 AM-10:45 AM	
61	IRII8CV040	SHYAM DEV YADAV	Analysis of road accident			10:45 AM-11:00AM	
62	IRII8CV015	DURGESH BATALA	Soil nailing	Prof. R S Patil		11:00AM-11:15AM	
63	IRII8CV045	VINITH G				11:15 AM-11:30AM	
64	IRII8CV014	DHIRAJ SHAH	papercrete			11:30AM-11:45AM	
65	IRII8CV010	DEEPAK THAKUR	Demolition of building	Prof. Shilpa B R	11:45PM - 12:00 PM		
66	IRI6CV011	BASAVAN GOWDA	Urban desgin		12:00PM -12:15 PM		
67	IRII8CV041	SINCHANA M	solid waste management		12:15PM -12:30 PM		

Aishwarya.v

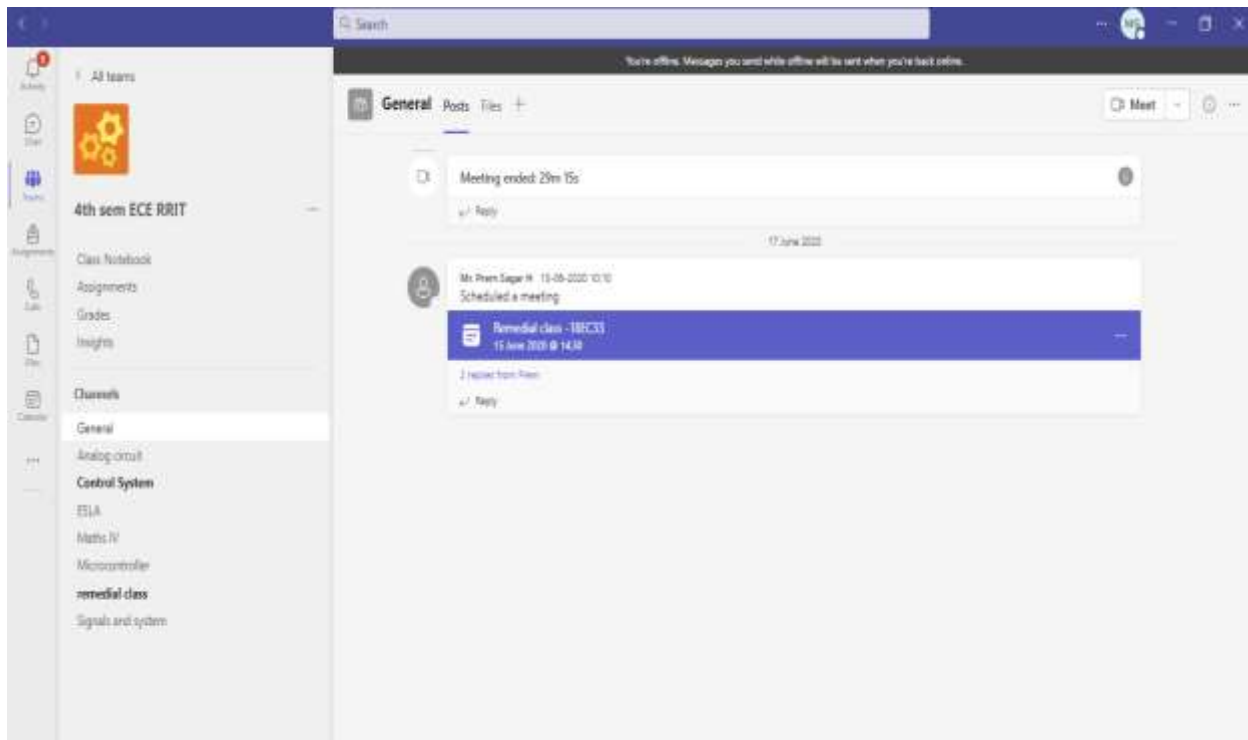

 R. INST. OF TECHNOLOGY
 Mysuru, Bangalore - 560 09

ICT TOOLS

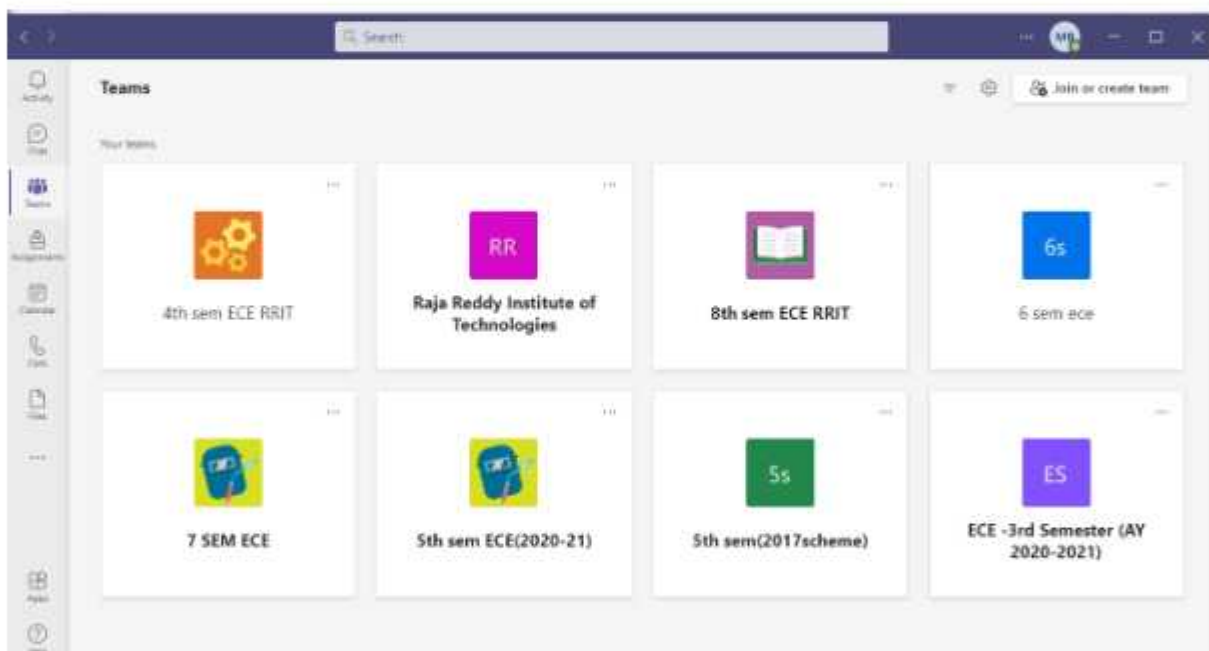
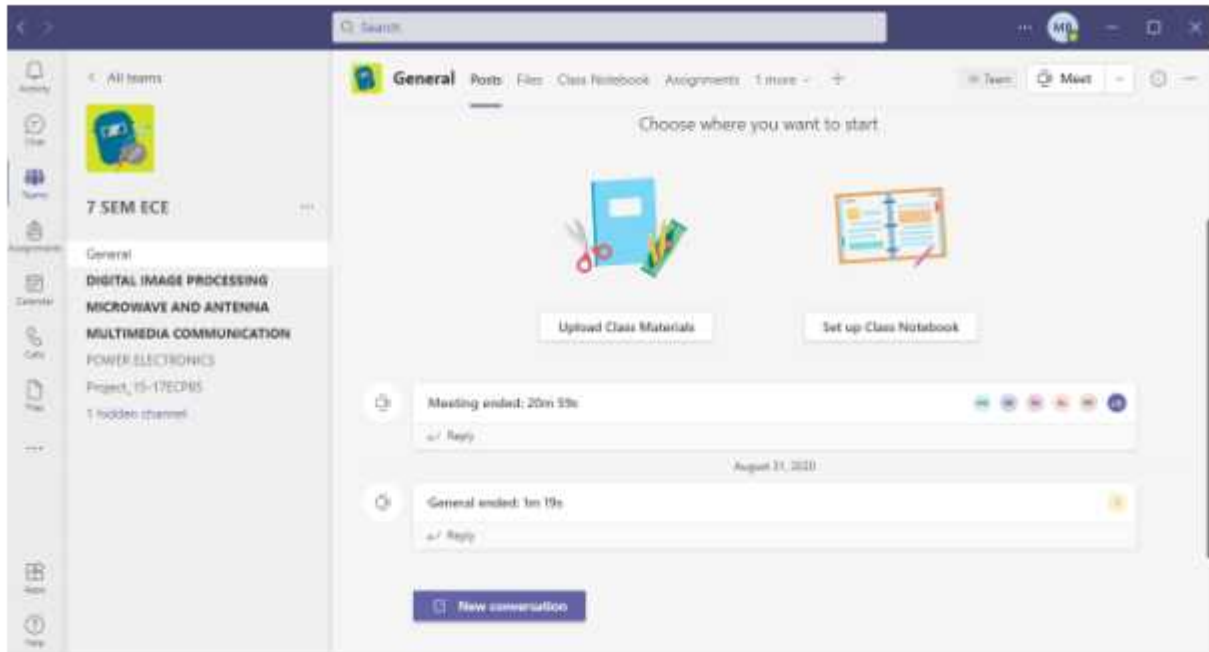
Microsoft Teams Allocation for online classes



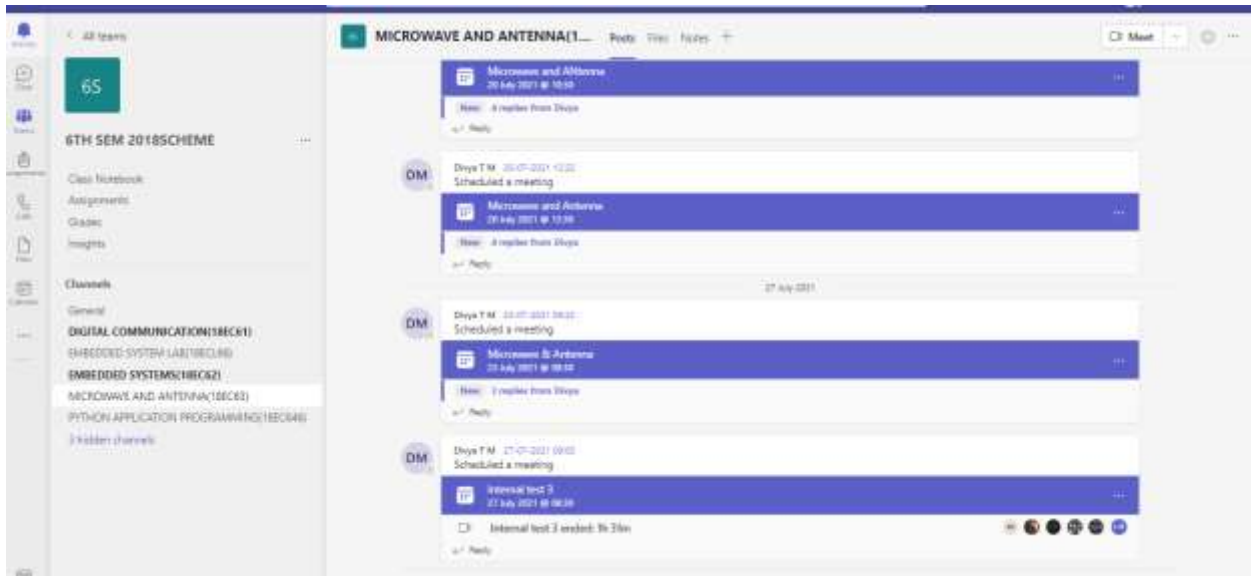
Teams Subject Allocation



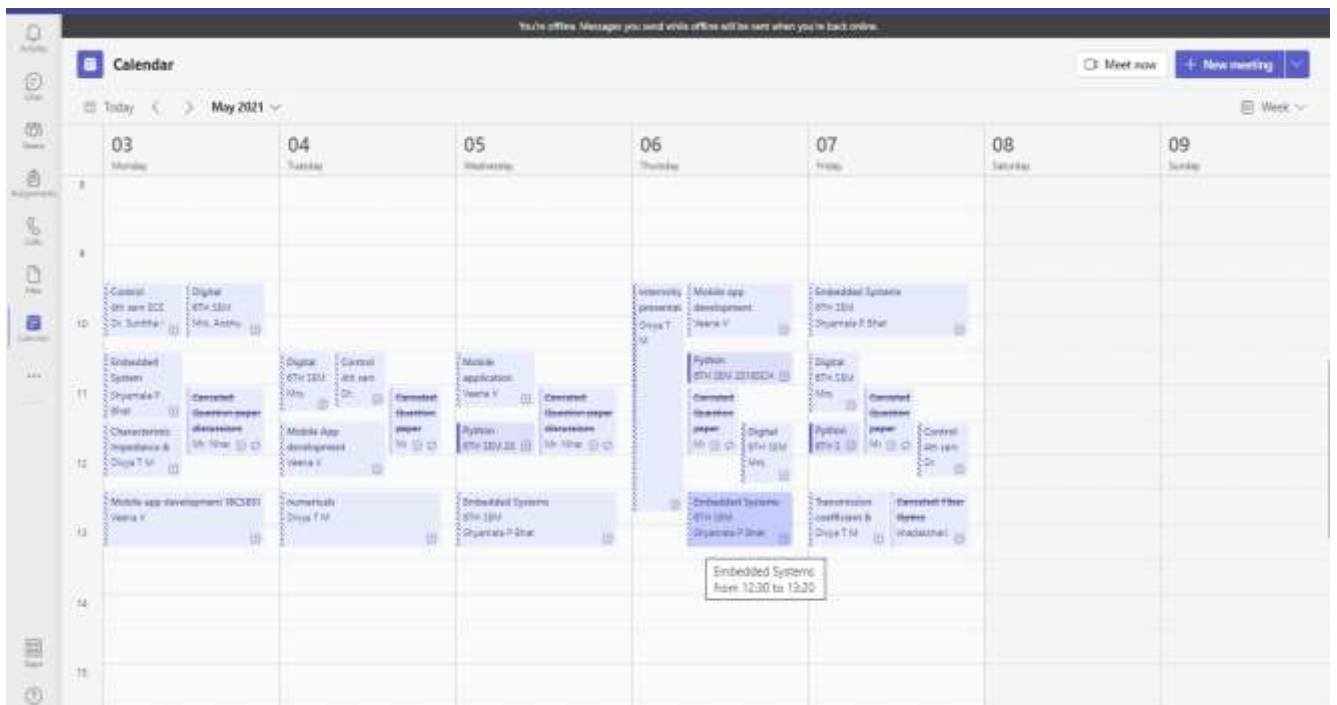
Faculty using Microsoft Teams



Class Schedule



Weekly Schedule of classes in Teams





PKM EDUCATIONAL TRUST ®

R R Institutions
BANGALORE

PHD | ENGINEERING | ARCHITECTURE | NURSING | PHARMACY | MBA
ALLIED HEALTH SCIENCES | POLYTECHNIC | EDUCATION | DEGREE | PUC

R R INSTITUTE OF TECHNOLOGY

ANALOG AND DIGITAL ELECTRONICS 18CS33

**UNIT 1: OPTO ELECTRONIC DEVICES, WAVE SHAPPING
CIRCUITS, LINEAR POWER SUPPLIES, OPAMP APPLICATION
CIRCUITS**

FACULTY NAME: EMMANUEL RAJARATHNAM



R R EDUCATIONAL TRUST ©

R R Institutions

BANGALORE

PHD | ENGINEERING | ARCHITECTURE | NURSING | PHARMACY | MBA
ALLIED HEALTH SCIENCES | POLYTECHNIC | EDUCATION | DEGREE | PUC

R R INSTITUTE OF TECHNOLOGY

**AUTOMATA THEORY AND COMPUTABILITY
18CS54**

**MODULE – 2
REGULAR EXPRESSION**

DHANANJAYA M K
Assistant Professor
Department of Computer Science and Engineering
R R Institute of Technology

29-03-2021

R R INSTITUTIONS BANGALORE

4



PSM EDUCATIONAL TRUST ®

R R Institutions
BANGALORE

PHD | ENGINEERING | ARCHITECTURE | NURSING | PHARMACY | MBA
ALLIED HEALTH SCIENCES | POLYTECHNIC | EDUCATION | DEGREE | PUC

RR INSTITUTE OF TECHNOLOGY

18EC34

MODULE 5-APPLICATIONS OF DIGITAL CIRCUITS

BY DIVYA T M

1E-11-2020

© R.R. INSTITUTIONS, BANGALORE

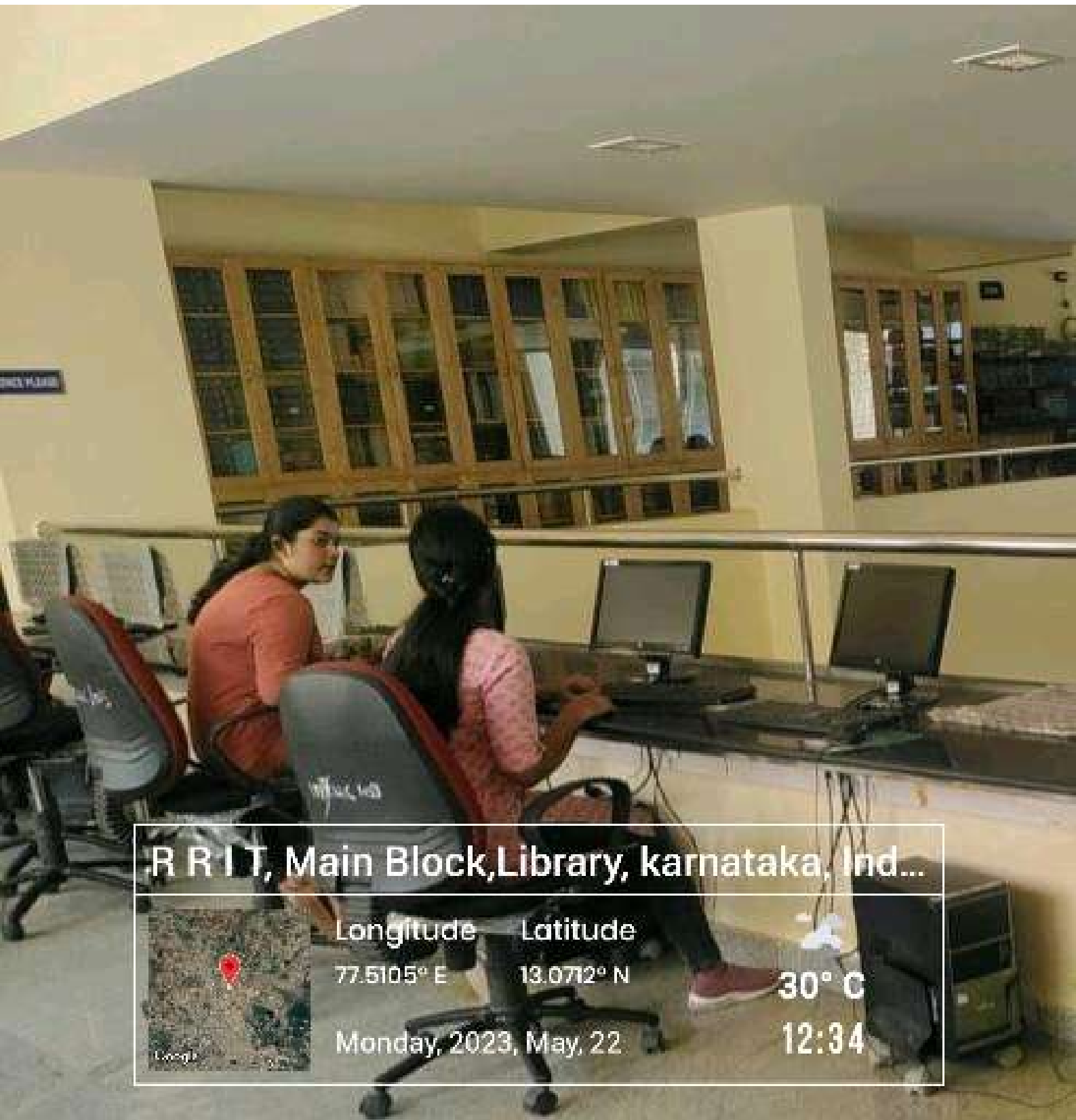
1

ICT Tools –Projector Rooms



Class Room Projectors





R R I T, Main Block, Library, karnataka, Ind...

	Longitude	Latitude	
	77.5105° E	13.0712° N	30° C
	Monday, 2023, May, 22		12:34

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

ASHWINI R

for successfully completing the course

Introduction to Industry 4.0 and Industrial Internet of Things

with a consolidated score of **55** %

Online Assignments	25/25	Proctored Exam	30/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: **7689**

Jan-Apr 2023

(12 week course)

Prof. Debjani Chakraborty

Coordinator, NPTEL

IIT Kharagpur

Institute of Technology Kharagpur





Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

UJJWAL KHANAL

for successfully completing the course

Design of Reinforced Concrete Structures

with a consolidated score of **61** %

Online Assignments	23.44/25	Proctored Exam	37.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **229**

Jul-Oct 2022

(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



II No: NPTEL22CE65S34750062

To validate the certificate



No. of credits recommended: 3 or



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
MD TAUSIF REZA ANSARI
for successfully completing the course

Design of Reinforced Concrete Structures

with a consolidated score of **66** %

Online Assignments	23.44/25	Proctored Exam	42.09/75
--------------------	----------	----------------	----------

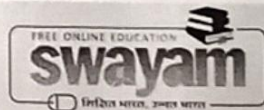
Total number of candidates certified in this course: **229**

Jul-Oct 2022
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CE65S34750012

To validate the certificate



No. of credits recommended: 3 or 4



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

UJJWAL KHANAL

for successfully completing the course

Design of Steel Structures

with a consolidated score of **53** %

Online Assignments	18.91/25	Proctored Exam	33.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **99**

Jul-Oct 2022

(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CE66S64750071

To validate the certificate
Page 238 of 261



No. of credits recommended: 3 or 4



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

JHANSI K

for successfully completing the course



Electric Vehicles - Part 1

with a consolidated score of **75** %

Online Assignments	24.17/25	Proctored Exam	50.51/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1010**

Devendra Jalihal

Prof. Devendra Jalihal

Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Feb 2023

(4 week course)

Andrew Thangaraj

Prof. Andrew Thangaraj

NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23EE01S44222033

To validate the certificate



No. of credits recommended: 1 or 2



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

DHEERAJ K

for successfully completing the course

Electric Vehicles - Part 1

with a consolidated score of **85** %

Online Assignments	24.17/25	Proctored Exam	61.22/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1010**

Devendra Jalihal

Prof. Devendra Jalihal

Chairperson,

Centre for Outreach and Digital Education, IITM

Jan-Feb 2023

(4 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



शिक्षित भारत, उन्नत भारत

Roll No: NPTEL23EE01S44221315

To validate the certificate



No. of credits recommended: 1 or 2



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
JAYADEEP K S
for successfully completing the course

Introduction to Engineering Seismology

with a consolidated score of **78** %

Online Assignments	22.66/25	Proctored Exam	55.8/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **97**

Prof. G. L. Sivakumar Babu
Chairman, Center for Continuing Education
IISc Bangalore

Jul-Oct 2022

(12 week course)

Prof. L. Umanand
NPTEL Coordinator
IISc Bangalore



Indian Institute of Science Bangalore



विद्यया ऽ मृतमश्नुते, अमृतमश्नुते

Roll No: NPTEL22CE64S54755005

To validate the certificate



No. of credits recommended: 3 or 4

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CE29S43192736

To
JAYADEEP K S
#400, 7TH MAIN ROAD MILK COLONY
MALLESHWARAM WEST
BENGALURU
KARNATAKA - 560055
PH. NO :9739815006



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

JAYADEEP K S

for successfully completing the course

Structural Analysis - I

with a consolidated score of **53** %

Online Assignments	22.5/25	Proctored Exam	30/75
--------------------	---------	----------------	-------

Total number of candidates certified in this course: **77**

Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Apr 2022
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22GE01S33193477
To
B R SHILPA
#304, THIRUMALA NIVAS
GANGAMMA TEMPLE STREET, JALAHALLI EAST
BANGALORE
KARNATAKA - 560013
PH. NO :9538022429

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

B R SHILPA

for successfully completing the course

**NBA Accreditation and Teaching and Learning in
Engineering (NATE)**

with a consolidated score of **56** %

Online Assignments	20.47/25	Proctored Exam	36/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 967

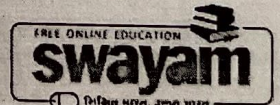
Prof. G. L. Sivakumar Babu
Chairman, Center for Continuing Education
IISc Bangalore

Jan-Apr 2022
(12 week course)

Prof. L. Umanand
NPTEL Coordinator
IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL22GE01S33193477

To validate and check scores: <https://npTEL.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS44S23194017

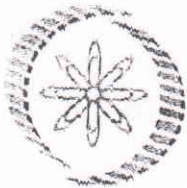
To
DEEP MANDAL
595, 10TH CROSS STREET, AGB LAYOUT
BANGALORE, KARNATAKA
BANGALORE
KARNATAKA - 560090
PH. NO :7001366506



Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 60	Elite
40-59	Successfully Completed
< 40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

DEEP MANDAL

for successfully completing the course

Blockchain and its Applications

with a consolidated score of **69** %

Online Assignments	22.56/25	Proctored Exam	46.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 1965

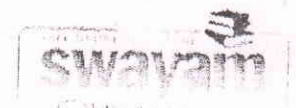
Prof. Jayanta Mukhopadhyay
Deputy Director
IIT Kharagpur

Jan-Apr 2022
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS13S13191629
To
DEEP MANDAL
595, 10TH CROSS STREET, AGB LAYOUT
BANGALORE, KARNATAKA
BANGALORE
KARNATAKA - 560090
PH. NO : 7001366506

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

Elite

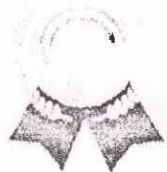


NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
DEEP MANDAL
for successfully completing the course



Ethical Hacking

with a consolidated score of **85** %

Online Assignments	23.41/25	Proctored Exam	61.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 2822

Prof. Jayanta Mukhopadhyay
Dean, Outreach
IIT Kharagpur

Jan-Apr 2022
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is a computer-generated one and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS13S13191518

To
SHARATH R
#49, 1ST CROSS MUNESHWARASWAMY LAYOUT,
DODDABIDARAKALLU, NAGASANDRA
BENGALURU
KARNATAKA - 560073
PH. NO :9738244244



Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 60	Elite
40-59	Successfully Completed
< 40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SHARATH R


for successfully completing the course

Ethical Hacking

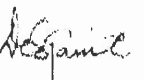
with a consolidated score of **71** %

Online Assignments	23.53/25	Proctored Exam	47.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 2822

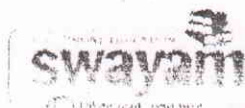

Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Apr 2022
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS13513192880

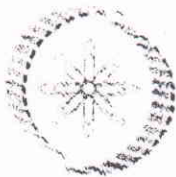
To
TANIMA MONDAL
28/26 SARADAPALLY BENACHITY
DURGAPUR PASCHIM MEDINIPUR
DURGAPUR
WEST BENGAL - 713213
PH. NO :9632428863



Score	Type of Certificate
≥ 90	Elite+Gold
≥ 80	Elite
40-59	Successfully Completed
< 40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
TANIMA MONDAL
for successfully completing the course

Ethical Hacking

with a consolidated score of **64** %

Online Assignments	23.85/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

Total number of candidates verified in this course: **2822**

Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Apr 2022
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21MA58S13221636

To
DR UPPARA MANJULAMMA
RRIT, CHIKKABANAVARA, BANGALORE-61
NO-71, SHETTIHALLI, BANGALORE-61
BANGALORE
KARNATAKA - 560061
PH. NO :8618636839

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

Elite



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

DR UPPARA MANJULAMMA

for successfully completing the course

Engineering Mathematics - I

with a consolidated score of **61** %

Online Assignments	16.25/25	Proctored Exam	44.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **74**

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20HS56S31210661

To
PAVAN SAGAR DOUSTAN
NO 261/4 2ND FLOOR 1ST CROSS AK COLONY
JAYNAGAR 7TH BLOCK
JAYNAGAR 7TH BLOCK
BANGALORE
KARNATAKA - 560070
PH. NO :8971307913



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
PAVAN SAGAR DOUSTAN
for successfully completing the course

Technical English for Engineers

with a consolidated score of **54** %

Online Assignments	16.25/25	Proctored Exam	37.5/75
--------------------	----------	----------------	---------

Devendra Jalihal

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Total number of candidates certified in this course: 2014

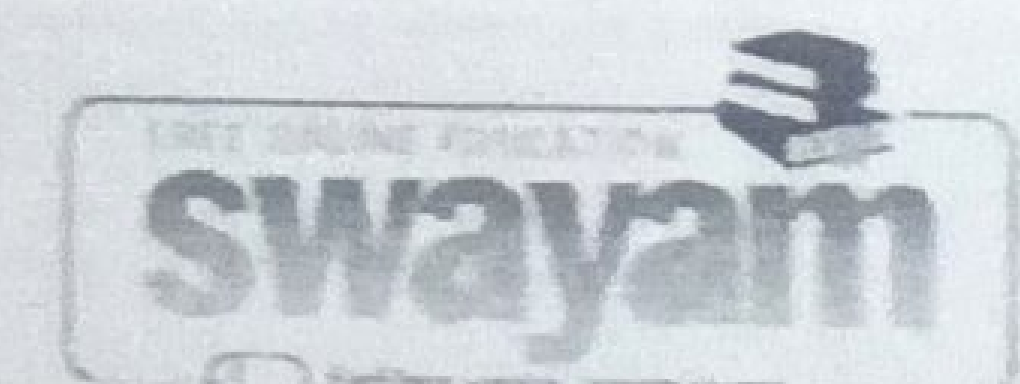
Sep-Nov 2020
(8 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20CY30S71211123

To
THEJASWINI D
NO 23 5TH CROSS, SANJEEVINI NAGAR,
OPPOSITE TO MATHRU SHREE KALYANA
MANTAPA, HEGGANAHALLI CROSS, BANGALORE
560091
R R INSTITUTE OF TECHNOLOGY, R R
LAYOUT, CHIKKABANAVARA, BANGALORE 560090

BANGALORE
KARNATAKA - 560091
PH. NO :9008959778

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
THEJASWINI D
for successfully completing the course

Introductory Organic Chemistry - I

with a consolidated score of **47** %

Online Assignments	15.42/25	Proctored Exam	31.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 177

Prof. Harinath Chakrapani
Dean, International Relations and Outreach
IISER Pune

Sep-Nov 2020
(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



IISER - Indian Institute of Science Education
and Research Pune



Roll No: NPTEL20CY30S71211123

To validate and check scores: <https://nptel.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20MA37S51210089

To
SHWETHA K R
NO 267, 5TH CROSS, SIRI NILAYA,
VIDHANASOUDHA LAYOUT, LAGGERE,
BANGLORE
KARNATAKA - 560058
PH. NO :9844269315

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

SHWETHA K R

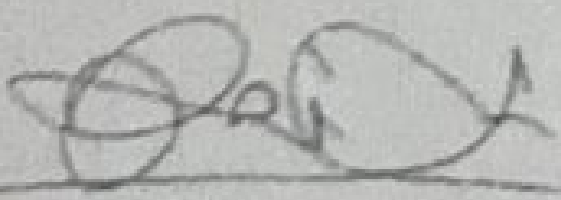
for successfully completing the course

Engineering Mathematics - I

with a consolidated score of **55** %

Online Assignments	20.47/25	Proctored Exam	34.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 133

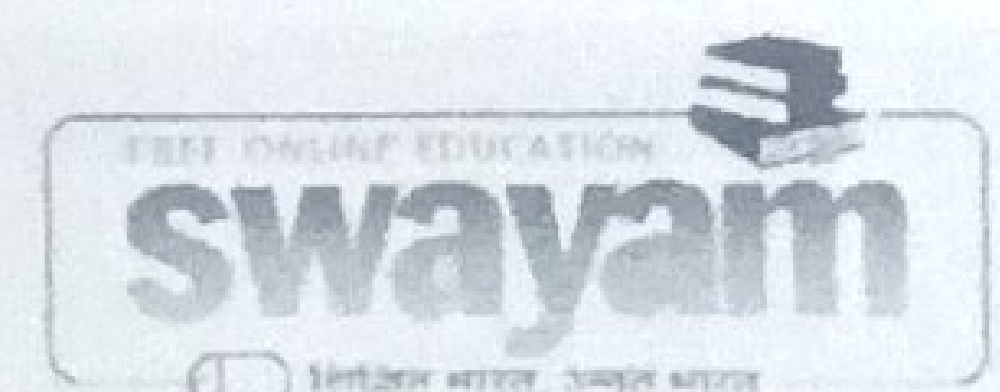

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Dec 2020
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20MA37S51210089

To validate and check scores: <https://nptel.ac.in/noc>

certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20MA37S51211345

To
NAIK PADHAMA
 NO.5, C/O OF MADHURA SHEKAR, 10TH CROSS
 NEAR BAGALGUNTE POLICE STATION
 HESARGATTA MAIN ROAD
 BANGLORE
 KARNATAKA - 560073
 PH. NO :8951863994

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3
 An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
NAIK PADHAMA
 for successfully completing the course

Engineering Mathematics - I

with a consolidated score of **51** %

Online Assignments	20.16/25	Proctored Exam	31.01/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **133**

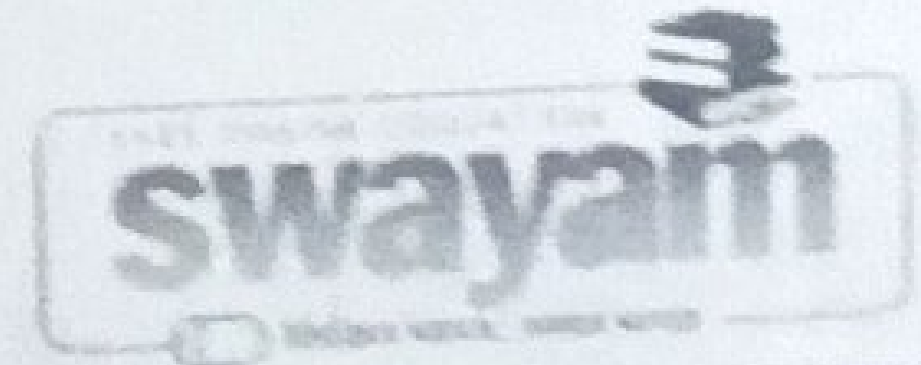
Prof. G P Raja Sekhar
 Dean, Continuing Education
 IIT Kharagpur

Sep-Dec 2020
 (12 week course)

Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur



Indian Institute of Technology Kharagpur



To validate and check scores: <https://nptel.ac.in/noc>

Roll No: NPTEL20MA37S51211345

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20MM17S51210182

To
ANITA R SHETTAR
R R INSTITUTE OF TECHNOLOGY
R R LAYOUT
BANGALORE
KARNATAKA - 560090
PH. NO :7624802728



Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 60	Elite
40-59	Successfully Completed
< 40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

Elite



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
ANITA R SHETTAR
for successfully completing the course

Physics of Materials

with a consolidated score of **60** %

Online Assignments	17.69/25	Proctored Exam	41.87/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **50**

Devendra Jalihal

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

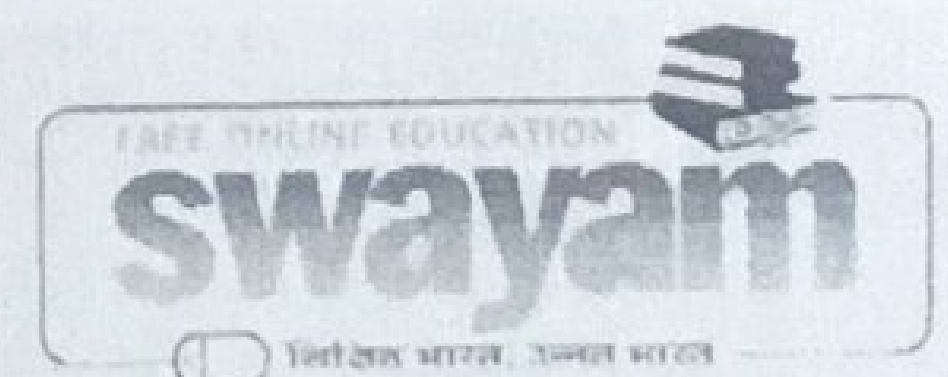
Sep-Dec 2020
(12 week course)

Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20MM17S51210182

To validate and check scores: <https://nptel.ac.in/noc>



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that Mr. Anand T from Raja Reddy Institute of Technology, Bangalore has participated and successfully completed the 06-day Online Students' Workshop on the theme "Universal Human Values" organized by All India Council for Technical Education (AICTE) from 17th October to 22nd October 2022.

A handwritten signature in black ink, appearing to read 'Dr. Rajneesh Arora', is positioned above the printed name.

Dr. Rajneesh Arora
Chairman
National Coordination Committee for Induction Program

A handwritten signature in black ink, appearing to read 'Prof. Rajive Kumar', is positioned above the printed name.

Prof. Rajive Kumar
Member Secretary, AICTE




ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that **Ms. Radhika B** from **RR Institute of Technology, Bangalore** has participated and successfully completed the **06-day Online Students' Workshop on the theme "Universal Human Values"** organized by **All India Council for Technical Education (AICTE)** from **17th October to 22nd October 2022**.


Dr. Rajneesh Arora
Chairman
National Coordination Committee for Induction Program


Prof. Rajive Kumar
Member Secretary, AICTE



Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018.

Prof. A.S. Deshpande B.E., M.Tech., Ph.D.
REGISTRAR

Phone: (0831) 2405468
Fax : (0831) 2405467

Ref No. VTU/Mysuru / 2019-20/ 8353

Date: 1 JAN 2020

CIRCULAR

Sub: Transmission of Live Lectures through e-Shikshana platform.

We are pleased to inform that, transmission of live lectures of UG courses under VTU e-Shikshana programme-03 will be commencing from 10th Feb 2020 to all VTU affiliated colleges.

VTU e-Shikshana Programme-03 includes:

1. Transmission of live lectures for the following courses
 - a) 18MAT41 - Complex Analysis, Probability and Statistical Methods
 - b) 18EE45 - Electromagnetic Field Theory
 - c) 17ME63 - Heat Transfer
 - d) 18CV42 - Analysis of Determinate Structures
 - e) 17CS61 - Cryptography, Network Security and Cyber Law
 - f) 18EC46 - Microcontroller
 - g) 15ARC6.6 Landscape Architecture
2. Career Guidance Programme and Placement Training classes
3. Special lectures/ CXO speaks / webinars/orientation programmes etc.

The Principals are requested to note the following:

1. To incorporate *e-Shikshana time table in regular academic time table* and to encourage students and faculties to utilize this facility effectively.
2. To direct the *e-Shikshana coordinators to ensure maintenance of separate attendance register [Course wise]*.
3. *Recording of all the e-Shikshana live classes is mandatory* and recorded content should be made available to the students for offline access.
4. *Attendance Registers of e-Shikshana live classes and the Recorded lectures will be inspected by VTU authorities during IJC visit.*

The institutions can avail e-Shikshana facility to host webinars, proceedings of conference and workshops through this platform.

For regular updates on e-Shikshana Programme-03, please log in to <http://elearning.vtu.ac.in>. For login credentials and connectivity issues contact: Mr.Lokesh B 8105084988 and Mr.Sectharamu 9986164401. For further clarification, contact: Dr. P. Sandhya, Special officer, VTU e-Learning Centre, Mysuru elearning@vtu.ac.in, Mob: 8660264978. Landline- 0821-2570223.

By order,

REGISTRAR

To,

- 1) The Principals of VTU Affiliated Colleges- for needful.

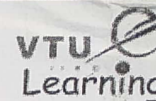
Copy to:

- 1) The Special officer, VTU e-Learning Centre, Mysuru.
- 2) The Regional Director, VTU Regional Office, Belagavi, Belagavi, Mysuru for information.
- 3) The Secretary to VC, VTU, Belagavi.



VTU e-Shikshana Programme - 03

Schedule for Live Transmission of Lectures from 12.02.2020 to 16.05.2020



DAY	10:00 - 10:50 AM	11:00 - 11:50 AM	12:00 - 12:50 PM		02:00 - 02:50 PM	03:00 - 03:50 PM
MON	Complex Analysis, Probability and Statistical Methods	Analysis of Determinate Structures	Cryptography, Network Security and Cyber Law	LUNCH BREAK	Heat Transfer	Electromagnetic Field Theory
TUE	Electromagnetic Field Theory	Complex Analysis, Probability and Statistical Methods	Analysis of Determinate Structures		Cryptography, Network Security and Cyber Law	Heat Transfer
WED	Microcontroller	Electromagnetic Field Theory	Heat Transfer			
THU	Cryptography, Network Security and Cyber Law	Heat Transfer	Complex Analysis, Probability and Statistical Methods		Analysis of Determinate Structures	Microcontroller
FRI	Analysis of Determinate Structures	Cryptography, Network Security and Cyber Law	Microcontroller		Complex Analysis, Probability and Statistical Methods	
SAT	Placement and Training		Carrier Guidance Programme			

Sl.No	Course Code	Course Name	Credit	Sem	Department
01	18MAT41	Complex Analysis, Probability and Statistical Methods	03	IV	Common
02	18CV42	Analysis of Determinate Structures	04	IV	Civil
03	17CS61	Cryptography, Network Security and Cyber Law	04	VI	CSE-ISE
04	17ME63	Heat Transfer	04	VI	ME
05	18EE45	Electromagnetic Field Theory	03	IV	EEE
06	18EC46	Microcontroller	03	IV	ECE

Faculty Name	Facility	Link
Dr. Naveen M	blogspot	https://mnaveenos.blogspot.com (https://mnaveenos.blogspot.com/)
Prof. Emmanuel R	blogspot	https://emmanuelrdc.blogspot.com (https://emmanuelrdc.blogspot.com/)
Prof. Vani Saptasagar	blogspot	https://vanipatil.blogspot.com (https://vanipatil.blogspot.com/)
Prof. Ganesha M	blogspot	https://ganesham664.blogspot.com (https://ganesham664.blogspot.com/)
Prof. Swetha K B	blogspot	https://profswethakb.blogspot.com (https://profswethakb.blogspot.com/)
Prof. Arpitha M	blogspot	https://arpithamartin.blogspot.com (https://arpithamartin.blogspot.com/)



Ref: VTU/ELC/2018-19/ 10154

Date: 18 FEB 2019

CIRCULAR

Sub: Transmission of Live Lectures through e-Shikshana- an interactive e-Learning platform.

We are pleased to inform that VTU e-learning Centre, Mysuru will be transmitting the live lectures to all the affiliated colleges through VTU e-Shikshana platform from 25/02/2019. The time table is enclosed.

e-Shikshana Programme includes:

1. Transmission of live lectures for the following subjects:
 - a) 18MAT21 - Advanced Calculus and Numerical Methods
 - b) 14ELN24 - Basic Electronics
 - c) 17CV43 - Applied Hydraulics
 - d) 17EE61/17EC43 - Control Systems
 - e) 17ME43 - Applied Thermodynamics
2. Industry interaction programs
3. Webinars on Research methodology for Research scholars
4. Career guidance Programme
5. Placement training classes
6. Technical skill enhancement programmes etc.

The principals are requested to incorporate e-Shikshana time table to their regular academic time table and encourage students to utilize this facility effectively and further to direct the identified e-Shikshana coordinators to ensure maintenance of attendance.

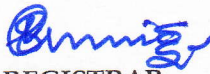
The interested institutions can avail this facility to host webinars, conferences and workshops through e-Shikshana platform from their institutions.

For Login connectivity issues contact: Mr. Seetharamu, e-learning centre, Mysuru, 9986164401.

For e-Shikshana Programme: Mr. Lokesh, e-learning centre, Mysuru, 8105084988.

For further clarification, contact: Dr. P. Sandhya, Special officer, VTU e-Learning Centre, Mysuru. elarning@vtu.ac.in, Mob: 8660264978. Landline- 0821-2570223.

By order,


i/c REGISTRAR
Sthg

To,

- 1) The Principals of Affiliated Colleges of VTU.
- 2) The PG Coordinator, Centre for PG Studies in Muddenahalli, Belagavi, Kalaburagi & Mysuru.

Copy to:

- 1) The Regional Directors (I/c), VTU's Regional Centers at Bengaluru, Belagavi, Kalaburagi & Mysuru for information.
- 2) The Secretary to VC, VTU, Belagavi.

8-Apr	MON	Adv. Calculus & Numerical Methods - AHS	Applied Hydraulics - KRS	Control Systems - SS	LUNCH BREAK	Basic Electronics - SN	Applied Thermodynamics - MRS	
9-Apr	TUE	Adv. Calculus & Numerical Methods - AHS	Applied Hydraulics - KRS	Control Systems - AD		Basic Electronics - SN	Applied Thermodynamics - KRN	
10-Apr	WED	Adv. Calculus & Numerical Methods - AHS	Applied Hydraulics - KRS	Control Systems - AD		Basic Electronics - SN	Applied Thermodynamics - KRN	
11-Apr	THU	Adv. Calculus & Numerical Methods - AHS	Applied Hydraulics - KRS	Control Systems - AD		Basic Electronics - SN	Applied Thermodynamics - KRN	
12-Apr	FRI	Adv. Calculus & Numerical Methods - KS	Applied Hydraulics - KRS	Control Systems - AD		Basic Electronics - SN	Applied Thermodynamics - KRN	
13-Apr	SAT	SECOND SATURDAY						
14-Apr	SUN	SUNDAY						
15-Apr	MON	Adv. Calculus & Numerical Methods - KS	Applied Hydraulics - KRS	Control Systems - AD		Basic Electronics - SN	Applied Thermodynamics - KRN	
16-Apr	TUE	Adv. Calculus & Numerical Methods - KS	Applied Hydraulics - HBB	Control Systems - AD		Basic Electronics - SN	Applied Thermodynamics - KRN	
17-Apr	WED	MAHAVEERA JAYANATHI						
18-Apr	THU	Adv. Calculus & Numerical Methods - KS	Applied Hydraulics - HBB	Control Systems - AD		Basic Electronics - SN	Applied Thermodynamics - KRN	
19-Apr	FRI	GOOD FRIDAY						
20-Apr	SAT	Placement and Training		Career Guidance Programme				
21-Apr	SUN	SUNDAY						
22-Apr	MON	Adv. Calculus & Numerical Methods - KS	Applied Hydraulics - HBB	Control Systems - AD		Basic Electronics - SN	Applied Thermodynamics - KRN	
23-Apr	TUE	Adv. Calculus & Numerical Methods - KS	Applied Hydraulics - HBB	Control Systems - AD		Basic Electronics - SN	Applied Thermodynamics - KRN	
24-Apr	WED	Adv. Calculus & Numerical Methods - KS	Applied Hydraulics - HBB	Control Systems - AD		Basic Electronics - SVU	Applied Thermodynamics - KRN	
25-Apr	THU	Adv. Calculus & Numerical Methods - KS	Applied Hydraulics - HBB	Control Systems - AD		Basic Electronics - SVU	Applied Thermodynamics - KRN	
26-Apr	FRI	Adv. Calculus & Numerical Methods - SM	Applied Hydraulics - HBB	Control Systems - AD		Basic Electronics - SVU	Applied Thermodynamics - KRN	
27-Apr	SAT	Placement and Training		Career Guidance Programme				
28-Apr	SUN	SUNDAY						
29-Apr	MON	Adv. Calculus & Numerical Methods- SM	Applied Hydraulics - HBB	Control Systems - AD	Basic Electronics - SVU	Applied Thermodynamics - KRN		
30-Apr	TUE	Adv. Calculus & Numerical Methods- SM	Applied Hydraulics - HBB	Control Systems - AD	Basic Electronics - SVU	Applied Thermodynamics - KRN		
1-May	WED	LABOURS DAY						
2-May	THU	Adv. Calculus & Numerical Methods- SM	Applied Hydraulics - HBB	Control Systems - AD	Basic Electronics - SVU	Applied Thermodynamics - KRN		
3-May	FRI	Adv. Calculus & Numerical Methods- SM	Applied Hydraulics - HBB	Control Systems - AD	Basic Electronics - SVU	Applied Thermodynamics - KRN		
4-May	SAT	Placement and Training		Career Guidance Programme				
5-May	SUN	SUNDAY						
6-May	MON	Adv. Calculus & Numerical Methods- SM	Applied Hydraulics - HBB	Control Systems - UR	Basic Electronics - SVU	Applied Thermodynamics - KRN		
7-May	TUE	BASAVA JAYANTHI						
8-May	WED	Adv. Calculus & Numerical Methods- SM	Applied Hydraulics - HBB	Control Systems - UR	Basic Electronics - SVU	Applied Thermodynamics - KRN		
9-May	THU	Adv. Calculus & Numerical Methods- SM	Applied Hydraulics - HBB	Control Systems - SS	Basic Electronics - SVU	Applied Thermodynamics		
10-May	FRI	Adv. Calculus & Numerical Methods- SM	Applied Hydraulics - HBB	Control Systems - SS	Basic Electronics - SVU	Applied Thermodynamics		
		Advanced Calculus & Numerical Methods - 18MAT21		Basic Electronics - 14ELN24		Applied Hydraulics - 17CV43		
		Dr. S Manjunath, BNMIT, Bengaluru - SM Dr. K R Jayakumar, KSIT, B'lore - KRJ Dr. A H Srinivasa, MIT, Mysuru - AHS Dr. K Sridhar, KVGCE, Sullia - KS Dr. Pradeep C R, CIT, Gubbi - PCR		Dr. Shylashree N, RVCE, Bengaluru - SN Dr. S.V. Uma, RNSIT, Bengaluru - SVU Dr. Bhagyashree S, ATME, Mysuru - BS		Dr. H B Balakrishna, BIT, Bengaluru - HBB Prof. Suresh Ramaswamyreddy, BMSCE, Blr - KRS		
		Applied Thermodynamics - 17ME43		Control Systems - 17EE61/17EC43				
		Prof. Ramanarasimha, KSIT, Bengaluru - KRN Prof. Srinivas M R, RVCE, Bengaluru - MRS Prof. S K Jagadeesh, Dr. AIT, Bengaluru - SKJ		Dr. K. Uma Rao, RVCE, Bengaluru - UR Dr. Abhay Deshpande, RVCE, Bengaluru - AD Dr. S. Sumathi, RNSIT, Bengaluru - SS				



VTU e-Shikshana - Programme 01
Schedule for Live Transmission of Lectures - 25.02.2019 to 10.05.2019



DATE	DAY	10 :00 - 11:00 AM	11:00 - 12:00 Noon	12:00 - 01:00 PM	02:00 - 03:00 PM	3:00 - 04:00 PM
25-Feb	MON		Applied Hydraulics - HBB	Control Systems - UR		Applied Thermodynamics - SKJ
26-Feb	TUE		Applied Hydraulics - HBB	Control Systems - UR		Applied Thermodynamics - SKJ
27-Feb	WED	Adv. Calculus & Numerical Methods - KRJ	Applied Hydraulics - HBB	Control Systems - UR	Basic Electronics - SN	Applied Thermodynamics - SKJ
28-Feb	THU	Adv. Calculus & Numerical Methods - PCR	Applied Hydraulics - HBB	Control Systems - UR	Basic Electronics - SN	Applied Thermodynamics - SKJ
1-Mar	FRI	Adv. Calculus & Numerical Methods - PCR	Applied Hydraulics - HBB	Control Systems - UR	Basic Electronics - SN	Applied Thermodynamics - SKJ
2-Mar	SAT	Placement and Training		Career Guidance Programme		
3-Mar	SUN	SUNDAY				
4-Mar	MON	MAHA SHIVARATHRI				
5-Mar	TUE	Adv. Calculus & Numerical Methods - PCR	Applied Hydraulics - HBB	Control Systems - UR	Basic Electronics - SN	Applied Thermodynamics - SKJ
6-Mar	WED	Adv. Calculus & Numerical Methods - PCR	Applied Hydraulics - HBB	Control Systems - UR	Basic Electronics - SN	Applied Thermodynamics - SKJ
7-Mar	THU	Adv. Calculus & Numerical Methods - PCR	Applied Hydraulics - HBB	Control Systems - UR	Basic Electronics - SN	Applied Thermodynamics - SKJ
8-Mar	FRI	Adv. Calculus & Numerical Methods - PCR	Applied Hydraulics - HBB	Control Systems - UR	Basic Electronics - SN	Applied Thermodynamics - SKJ
9-Mar	SAT	SECOND SATURDAY				
10-Mar	SUN	SUNDAY				
11-Mar	MON	Adv. Calculus & Numerical Methods - PCR	Applied Hydraulics - HBB	Control Systems - UR	Basic Electronics - SN	Applied Thermodynamics - SKJ
12-Mar	TUE	Adv. Calculus & Numerical Methods - PCR	Applied Hydraulics - KRS	Control Systems - UR	Basic Electronics - SN	Applied Thermodynamics - SKJ
13-Mar	WED	Adv. Calculus & Numerical Methods - PCR	Applied Hydraulics - KRS	Control Systems - UR	Basic Electronics - SVU	Applied Thermodynamics - SKJ
14-Mar	THU	Adv. Calculus & Numerical Methods - PCR	Applied Hydraulics - KRS	Control Systems - UR	Basic Electronics - SVU	Applied Thermodynamics - SKJ
15-Mar	FRI	Adv. Calculus & Numerical Methods - KRJ	Applied Hydraulics - KRS	Control Systems - UR	Basic Electronics - SVU	Applied Thermodynamics - SKJ
16-Mar	SAT	Placement and Training		Control Systems - UR		
17-Mar	SUN	SUNDAY				
18-Mar	MON	Adv. Calculus & Numerical Methods - KRJ	Applied Hydraulics - KRS	Control Systems - UR	Basic Electronics - SVU	Applied Thermodynamics - SKJ
19-Mar	TUE	Adv. Calculus & Numerical Methods - - KRJ	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - SVU	Applied Thermodynamics - SKJ
20-Mar	WED	Adv. Calculus & Numerical Methods - - KRJ	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - SVU	Applied Thermodynamics - SKJ
21-Mar	THU	Adv. Calculus & Numerical Methods - KRJ	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - SVU	Applied Thermodynamics - SKJ
22-Mar	FRI	Adv. Calculus & Numerical Methods - KRJ	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - SVU	Applied Thermodynamics - SKJ
23-Mar	SAT	Placement and Training		Career Guidance Programme		
24-Mar	SUN	SUNDAY				
25-Mar	MON	Adv. Calculus & Numerical Methods - KRJ	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - SVU	Applied Thermodynamics - SKJ
26-Mar	TUE	Adv. Calculus & Numerical Methods - KRJ	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - BS	Applied Thermodynamics - MRS
27-Mar	WED	Adv. Calculus & Numerical Methods - KRJ	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - BS	Applied Thermodynamics - MRS
28-Mar	THU	Adv. Calculus & Numerical Methods - KRJ	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - BS	Applied Thermodynamics - MRS
29-Mar	FRI	Adv. Calculus & Numerical Methods - AHS	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - BS	Applied Thermodynamics - MRS
30-Mar	SAT	Placement and Training		Career Guidance Programme		
31-Mar	SUN	SUNDAY				
1-Apr	MON	Adv. Calculus & Numerical Methods - AHS	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - BS	Applied Thermodynamics - MRS
2-Apr	TUE	Adv. Calculus & Numerical Methods - AHS	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - BS	Applied Thermodynamics - MRS
3-Apr	WED	Adv. Calculus & Numerical Methods - AHS	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - BS	Applied Thermodynamics - MRS
4-Apr	THU	Adv. Calculus & Numerical Methods - AHS	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - BS	Applied Thermodynamics - MRS
5-Apr	FRI	Adv. Calculus & Numerical Methods - AHS	Applied Hydraulics - KRS	Control Systems - SS	Basic Electronics - BS	Applied Thermodynamics - MRS
6-Apr	SAT	UGADI				
7-Apr	SUN	SUNDAY				

LUNCH BREAK