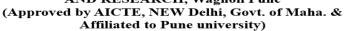


#### JAYAWANT SHIKSHAN PRASARAK MANDAL'S BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH, Wagholi Pune



GAT.NO.720 (1), WAGHOLI, PUNE-NAGAR ROAD, PUNE-412207.

TE. NO. (020)27051170 FAX. NO. (020)27052590 Department of Electronics and Telecommunication







Date: 19/10/2023

# REPORT On 3 Days workshop on

"PIC-18F Microcontroller Programming & Applications"



#### In Association with IETE Centre Pune

Name of Event	PIC-18F Microcontroller Programming & Applications	
Organized Under	In association with IETE Centre Pune	
Date of Event	9/09/2023, 13/10/2023 & 14/10/2023	
Location of Event	D1 Building, VLSI & Embedded Lab, E&TC	
	Department of JSPM's Bhivarabai Sawant Institute of	
	Technology & Research	
Number of Persons Attending	72	
Sponsoring Organization(s)	Management of JSPM Group of Institutes, Pune	
Principal	Dr. T.K Nagaraj	
Program Co-Coordinator Name	Prof. Sneha D. Dhere	
Speaker Name	Prof. Tushar Kafare, Assistant Professor, STES's Sinhgad	
	College Of Engineering Pune	

Sr	Learning objectives	PROGRAM OUTCOMES (POs)	
No.			
1.	Proficiency to embedded Systems	PO1, PO2, PO5, PEO-1, PEO-2, PSO-1	
2.	Subject knowledge of Microcontroller	PO1, PO5, PSO-1	
3.	Team skills	PO1, PO9, PO10, PSO-1	



Flyer 3 Days workshop on

"PIC-18F Microcontroller Programming & Applications"

JSPM'S Bhivarabai Sawant Institute of Research and Technology Department of Electronics and Telecommunication under the ETESA and in association with IETE Pune Center Pune organized three days workshop on PIC Microcontroller Programming and Applications on 9/09/2013, 13/10/2023 and 14/10/2023.

The workshop was carried out at Embedded Lab for the Third Year subject Microcontroller, for Semester V Electronics and Telecommunication Engineering Students. Prof. Sneha Dhere acted as a organizer, along with 76 students attended the workshop.

#### **Brief Information about the Expert person:**

Above workshop expert was Prof. Tushar Kafare, Assistant Professor Sinhgad group of Institutes Pune. He is expert in the Embedded Domain and conducted various embedded workshops earlier. He worked in BSIOTR previously for the year 2016-17.



Photo 1: falicitation ceremony with presence of HOD E&TC Dr. Y. S. Angal for the expert Prof. Tushar Kafare by IETE student co- ordinator Abhijeet Choudhary



Photo 2: students audience during PIC-18 workshop day 1 session

#### Daywise workshop Details:

#### **Day 1:**

Introduction to PIC 18 microcontroller, comparison with other microcontroller and applications was discussed. Day 1 afternoon hands on session on PIC-18 was conducted. Students run the LED flashing experiment on PIC-18 kit.

Present students: 64

#### **Day 2:**

morning session hands on session on PIC-18 was conducted, how to read a data sheet of the specific microcontroller was discussed. Program on UART, LCD interfacing, Delay using Timer to generate a square wave and DC motor speed control with PIC-18F4520 was discussed.

Present students: 61

#### **Day 3:**

morning session hands on session on PIC-18 was conducted and Program on RTC and ADC registers, interfacing program with PIC-18F4520 was concluded.

**Present students: 66** 



Photo 3: Expert Prof. Tushar Kafare guiding students about PIC-18 experiments



Photo 4: Expert Prof. Tushar Kafare guiding students about PIC-18 experiments

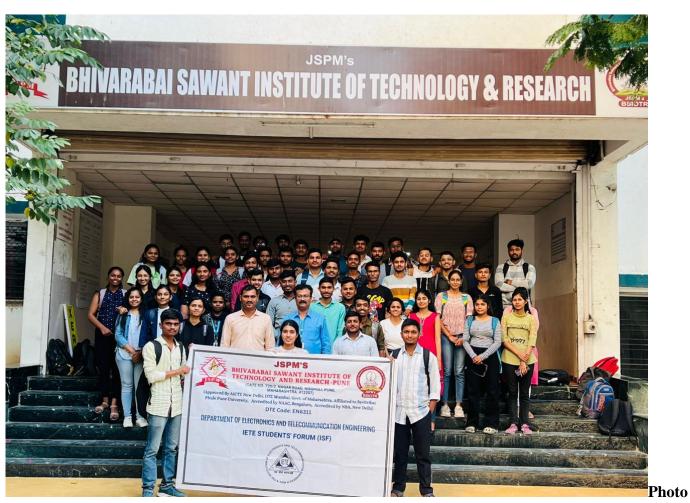


5: Expert Prof. Tushar Kafare guiding students about PIC-18 Microcontroller



Photo 6 & 7: students learning skills and engaged in various PIC-18 experiments

Expert Prof. Tushar Kafare encouraged and guided the TE E&TC students about the Microcontroller subject and explained useful concepts in easy way. He solved the doubts of students and told students about the career opportunities and scope of the subject in future. He explained his sincerer opinion about the BSIOTR Pune. Students were active during all the sessions and enjoyed the sessions.



8: PIC-18 workshop participants with HOD E&TC Dr. Y. S. Angal , Prof. Tushar Kafare, Prof. Sneha Dhere & IETE student co-ordinator

#### **Outcomes from the session:**

Sr No.	Outcomes
1.	Microcontroller PIC 18F Basic Knowledge
2.	Applications of PIC-18F in real world
3.	Programming skills of PIC-18F Microcontroller
4.	Future schope of Embedded Systems using PIC-18F
5.	Career opportunities in Core Industries .

This Event was organized by the BSIOTR ETESA

Prof. Sneha D. Dhere

Faculty In-Charge

HOD, E &TC

(Program Co-ordinator)

A. Musake

Prof. Meenakshi Annamalai

ETESA Co-ordinator

Dr. T.K. Nagaraj

PRINCIPAL

(Program Director)
PRINCIPAL

Balmacou Z. apra Indition Called Library & Research Viagholi, Pune-412227.



# JAYAWANT SHIKSHAN PRASARAK MANDAL'S Bhivarabai Sawani Institute of Technology & Research (Approved by Alette, New Dollsi, Govt. of Mahada Affiliated to Pune university) GAT NO.720 (1), WAGHOLL PUNE NAGAR ROAD, PUNE-412207. TELNO.0230)27051170 FAX.NO.0230)27052590



### Department of Electronics and Telecommunication

(Accredited with NBA & NAAC)

A.Y. 2023-24



Date: 05/09/2023

# NOTICE

All students of TE E&TC are hereby informed that a workshop on pic-18 Microcontroller programming and applications is going to held in department of E&TC on 9/9/2023, 15/09/2023 and 16/09/2023. It is compulsory for the students to attend the event.

Prof. Sneha D. Dhere Subject Teacher Microcontroller

F & 2 Prof. Meenakshi Annamalai ETESA Co-ordinator

Dept. of E&TC BSIOTR

HOD (E&TC)

BSIOTR

Dr. T. K. Nagaraj

Prinsipal CIPAL

M. B.S. O. Boai Sawant Institu Technology & Research

Wagholl, Puna- 412207



#### JSPM's

Bhivarabai Sawant Institute Of Technology & Research Wagholi, Pune

#### Department of Electronics and Telecommunication



Dates: 9/09/2023, 15/09/2023 and 16/09/2023

Class TE E&TC Attendance sheet Day 1



AICTE ACCREDITED BY





<u>.</u>		Signature Morning session	Signature Afternoon session
Roll No	Student Name	Timing 10:45 am to 12:45 am	Timing 1:30 pm to 3:30 pm
3201	BAGWAN MUBEEN SAMEER	(AD)	(AB)
3202	GAIKWAD PRASAD SANTOSH	Rand	mayou
3203	RODE ABHIRAJ PRAVIN	Acole	Australia
3204	ADHAV ARYA SHIVAJI	æ.	<b>A</b>
3205	AJAY SUNIL KASABE	Bjay	Bjay
3206	ANDHARE PRIYA VINAYAK	A A	The state of the s
3207	ANKUSHE MAHESH RAJENDRA	( AB>	( AB
3208	AUTI SOHAM RAMDAS	Stufi.	Studi.
3209	BANDE RUSHIKESH LAXMAN		
3210	BHOSALE SHAMBHURANJE SANTOSH	phosale	- Kausali
3211	CHAVAN PIYUSH KAUTIK	Martin	0
3212	CHAVAN RAVIRAJ ANANDRAO	E AB S	4B
3213	CHAVARE ATHARY UMESH	havaran	( bought

3214	CHOURE PRANITA BHAUSAHEB	- Aug	
3215	CIRVI UMESH MOHANLAL	med	me
3216	DHALPE ATHARV VIJAYKUMAR	AB -	← BB
3217	DHULGANDE KIRAN SURYAKANT	← AB	< MB -
3218	GAVANDI UDDHAV SANJAY	<	X AB
3219	GHULE SANKET ARUN	← AB →	K AB
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3227	KARLE KAMLESH RAJENDRA	Fall.	( Lane
3228	KATE CHANDRASHEKHAR BHAUSAHEB	C.B. Kal	C.B. kou
3229	KUMBHAR AKSHAY VIJAY	AB>	4 0B
3230	MORE ANURAG CHAURANG	OMORE.	OMORE.
3231	MOURYA TUSHAR ANIL	Amya	Amya
3232	NAIR ANJALI RAJAN	· Argati	- Justin
3233	NARWADE RITESH SANTOSH	(Kin)	Ruy
3234	NIKAM VISHAKHA SUDHAKAR	Hikam.	
3235	NISHANT S PAWAR	Muas	Johnson .
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3237	PATIL SIDDHANT SOMNATH	-85allil	SS/NO
3238	PATIL VAIBHAV RAJENDRA	1. Par	Paul

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3244	RASAL UDAY SHARAD	Cudano	lugar
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3260	UBALE KUBER ANIL	(Ruber).	(Kuber)
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3276	PARIGHA SANJAY PATIL	L AB	Tangle-
3277	RUDRESH RODE	( AB>	4 BB - 5

Prof. S. D. Dhere

**Subject Teacher** 

Microcontroller

A. Meerabe C Prof. Meenakshi Annamalai

ETESA Co-ordinator

Dept. of E&TC BSIOTR

S. Angal

Electroni HOD (E&TC) unication Dep

Tech**BSIOTR**, Research Wagholi, Pune-412 207

Dr. T. K. Nagaraj

Principal

BSIOTR

#### JSPM's



NBA

Bhivarabai Sawant Institute Of Technology & Research Wagholi, Pune

#### Department of Electronics and Telecommunication



Dates: 9/09/2023, 13/10/2023 and 14/10/2023

Class TE E&TC Attendance sheet Day 3







	The state of the s	MANA	
	St. Land	Signature Morning session	Signature Afternoon session
Roll No	Student Name	Timing 11 am to 1 pm	Timing 2 pm to 4 pm
3201	BAGWAN MUBEEN SAMEER		-0 AB -
3202	GAIKWAD PRASAD SANTOSH	Quel	Buy
3203	RODE ABHIRAJ PRAVIN	Dende	Juste
3204	ADHAV ARYA SHIVAJI		AB-
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3268	WAHUL DIPAK GANESH	Kew	7.4
3269	PATHARKAR YOGESH PRAKASH	Hathvelor	Callrules
3270	ABHIJEET TATYASAHEB CHAUDHARI	Di-chaudhai	-AB-
3271	AVINASH BHARAT GHALME	(A) vinash	(A Vainash
3272	PRATEEK GAJENDRA HAJARE	- BB	AB-
3273	SHRADHA BHASKAR DIGHE	- AB -	-85-
3274	DIVYA ZUMB <b>E</b> R KAWALE	- tawale	Famale
3275	ARCHANA SHIVAJI SONAWANE	Account	- Marina
3276	PARIGHA SANJAY PATIL	Tariglie-	Taighe.
3277	RUDRESH RODE		-AB

Prof. S. D. Dhere

Subject Teacher

Microcontroller

Prof. Meenakshi Annamalai

ETESA Co-ordinator

Dept. of E&TC BSIOTR

Dr. Y. S. (Angal

Electron HOD (E&TC) Institute of

Teci**BSIOTR**<sup>2</sup> Research Wagholi, Pune 412 207

Dr. T. K. Nagaraj

Principal

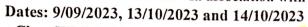
**BSIOTR** 

#### JSPM's

Bhivarabai Sawant Institute Of Technology & Research Wagholi,Pune

# Department of Electronics and Telecommunication

3 Days workshop on "PIC-18 Microcontroller" In association with IETE Center Pune



Class TE E&TC Attendance sheet Day 2



NBA AICTE CCREDITEDE





Roll No	Student Name	Signature Morning session	Signature Afternoon session
		Timing 11 am to 1 pm	Timing 2 pm to 4 pm
3201	BAGWAN MUBEEN SAMEER		
3202	GAIKWAD PRASAD SANTOSH	(A)	Drogad-
3203	RODE ABHIRAJ PRAVIN	akode	bou
3204	ADHAV ARYA SHIVAJI		AB -
3205	AJAY SUNIL KASABE	Biart.	Disport.
3206	ANDHARE PRIYA VINAYAK	Thomas .	Ade -
3207	ANKUSHE MAHESH RAJENDRA	ARD	- AB -
3208	AUTI SOHAM RAMDAS	Steels.	Studi.
3209	BANDE RUSHIKESH LAXMAN		<b>B</b>
3210	BHOSALE SHAMBHURANJE SANTOSH	Perusale	Thosale
3211	CHAVAN PIYUSH KAUTIK	Calmery.	- AB -
3212	CHAVAN RAVIRAJ ANANDRAO	AB -	AB -
3213	CHAVARE ATHARY UMESH	havedin	- havedu

3214	CHOURE PRANITA BHAUSAHEB	1	
3215	CIRVI UMESH MOHANLAL	- 83	Mb
3216	DHALPE ATHARV VIJAYKUMAR	med	aux .
3217	DHULGANDE KIRAN SURYAKANT	au	ary.
3218	GAVANDI UDDHAV SANJAY	ANS	AB -
3219	GHULE SANKET ARUN	AB	- A/3
3220	GUND SANDESH SANTOSH	Shule	AB
		- AB	G. S.
3221	HOLKAR MANSI MUKUND	Mollida	@rejpat
3222	JADHAV SITARAM SUBHASH	Silonor.	Toram
3223	JADHAWAR ASHUTOSH RAMESH	Hadhawa	Thathave
3224	KADAM ADITYA MANOHAR	Antaclas	Antador
3225	KADAM KUNAL ASHISH	AB	AB
3226	KAKADE PRANITEE ARJUN	Dedias	(Malea)
3227	KARLE KAMLESH RAJENDRA	Pale.	Canil
3228	KATE CHANDRASHEKHAR BHAUSAHEB	C.B. Kate	C.B. Kale
3229	KUMBHAR AKSHAY VIJAY	AKS hay-K	Atshay.k
3230	MORE ANURAG CHAURANG		A16
3231	MOURYA TUSHAR ANIL	Amya	- AB
3232	NAIR ANJALI RAJAN	Anati	-Angali
3233	NARWADE RITESH SANTOSH	AB	- A/3
3234	NIKAM VISHAKHA SUDHAKAR	this Kam.	frikaco.
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3236	PATIL RUSHIKESH VISHNU	- Fully	- Tunk Court
3237	PATIL SIDDHANT SOMNATH	8810HL	AB
3238	PATIL VAIBHAV RAJENDRA	Plade	AB

3239	PESHAVE MADHURA SANJAY	(1)	
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3241	PRANITA JALINDAR GADHAVE	JPNT-P	10
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3274	DIVYA ZUMB <b>B</b> R KAWALE	- Kawaie	- AB
3275	ARCHANA SHIVAJI SONAWANE	Agens	Arrobent
3276	PARIGHA SANJAY PATIL	X outgles-	Xalgus-
3277	RUDRESH RODE	- AB -	- AB -

Prof. S. D. Dhere

Subject Teacher

Microcontroller

A. Marabac Prof. Meenakshi Annamalai

ETSSA Co-ordinator

Dept. of E&TC BSIOTR

Dr. Y. S. Angal

Electroni HOD (EXTC) unication Dep Bhivarabat Sawant Institute of

TechBSIQTR Research Wagholi, Pune- 412 207

Dr. T. K. Nagaraj

Principal

**BSIOTR** 





# GUT NO.720, PUNE-NAGR ROAD, WAGHOLI, PUNE-

### Honorarium

Ledger Account

### 1-Apr-2023 to 31-Mar-2024

							Page 1
Date		Particulars	,	Vch Type	Vch No.	Debit	Credit
27-6-2023	Cr	Axis Bank Ltd	919010068111799	Payment	Che No-313570	3,000.00	
	Cr	Axis Bank Ltd	919010068111799	Payment	Che No-342820	16,000.00	
27-12-2023	Cr	Axis Bank Ltd	919010068111799	Payment	Che No-367032/NEFT/RTGS	9,000.00	
		Prof-Tushar Kaf	367032 of Honorarium to the fare Sub-Microcontrol	ler e	9,000.00 Cr		7
	Dr		& TC Dep. (Y.S.Angal- Balance	-n <i>ob)</i>	-	28,000.00 <b>28,000.00</b>	28,000.00 <b>28,000.00</b>

Bhivarabai Sawant institute Of Technology & Research



# **AUDIT NOTE** JSPM GROUP OF INSTITUTES JAYAWANT SHIKSHAN PRASARAK MANDAL

	J	MONKAK MANDAL
Audit Note 85		Date 28/11/2023
We have verified the do	ocuments put up before us and the o	bservations in this regard are as below-
Campus	BSIOTR	
Name of Institute	WAGHOLI	
Nature of payment	Payment of Honorarium to the expe	rt Prof.Tushar Kafare CHB remuneration.
Details		
1 Sancation Amount Rs.9000/-Against of Rs.9000/-		t of Rs.9000/-
2 Approval letter attached, discussion with MR.ANIL BHOSALE SIR DIRECTOR JSPI		h MR.ANIL BHOSALE SIR DIRECTOR JSPM.
Total hours 12, Original approval attached (12 hours)		attached (12 hours)
4	Total honorarium 12*750=Rs.9000/-	
Cheque No	367032	
Name of Bank	Axis bank	
Cheque/DD Amount	Rs.9000/-	-
Remark: All above do	ocuments and details checked verifie	d and found correct,

so put up for Hon'ble's Signature

# \*YOURSELF FOR NEFT/RTGS To Honorarium Expert E & TC\*\*

OR BEARER / UT SXXXXX

Rupees\*\*Nine Thousand Only\*\*

9,000.00\*\*

919010068111799

000160

For JSPM'S BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH

> Authorised Signatory(ies) Please sign above

Payable at par at all branches of Axis Bank Ltd in India.

11 3 6 7 0 3 2 11 E 

Sub.:- Transfer fund by RTGS/NEFT.

Dear Sir,

Please online amount transfer to as per following list, RTGS details given below.

		DETAILS	OF BENEFICIARY	nganitati e salam manara lamba salam manana man	
Sr. No	Beneficiary Name	Beneficiary Bank	IFSC Code	Account No	Amount
7	Mr.TUSHAR VAMAN KAFARE	STATE BANK OF INDIA	SBIN0006443	31008154974	9000
	I KATANA	TOTAL AMOUNT	OF RS.		9000

Remitters Name:

RifyrabaiSawant Institute Of (e)earch, Wagholi

Remitters Account No.

Amount:

Charges Collected:

Transaction ID in Finacle

Purpose:

HONORARIUM TO EXPERT DEP E & TC.

9,000

9010068111799

ENCL:-Cheque No. '367032' Amount: -9,000/ and request you to please debit my account 919010068111799 for fund transfer through RTGS and for its commission.



Cheque No:

Amount: 9000 Institute: 13.5

Date: 01/09/2023

Website: www.jspm.edu.in/www.bsiotr.org

10- JSPM BSIOTR 6626 2023-24

To,

The Founder Secretary,

JSPM & TSSM Group Of Institutes

Katraj Pune

Subject: Request to sanction an expert session for the subject "Microcontroller" TE E&TC (2019) Course)

Respected sir,

We from the dept. of E&TC BSIOTR Wagholi want to organise an expert lecture and practical sessions on 09/09/2023 ,15/09/2023 and 16/09/2023 for 3 days for the TE E&TC Engineering students. This session is needed for the expert guidance on PIC -18 Microcontroller. This session is as per the SPPU syllabus of TE E&TC (2019 course) of the subject "Microcontroller course code 304184" and "Microcontroller Practical" course code 304188. These sessions will be useful for the technical enhancement activity required for NBA. The objective of the training is to develop technical excellence and proficiency in the Embedded Systems. Please find the details and the Resume of the resource person.

Name of the resource person	Prof. Tushar Kafare
Designation	Assistant Professor
Educational Qualification	ME (VLSI & Embedded Systems)
Experience	14 Years
Expert Area	Embedded Systems & IOT
Strength of the TE students	76
Syllabus to be covered	Interfacing of PIC -18 Microcontroller with different peripherals i.e. Group B and Group C for SPPU TE E&TC Syllabus 2019 pattern Experiment No. 6,7,8,9,10,11,12,13 and 14
Total duration of the training	12 Hrs (4 hours per day) Ok.
Total honorarium	12* 750= Rs.9000
Total	Rs. 9000 In words Rs. Nine Thousands Only

Thanking You

"JSPM Corpurate C

Prof. Sneha D. Dhere **Subject Teacher** Microcontroller

S/Angal

HOD (E&TC) BSIOTR

Dr. Sachin V. Adamane

Campus Director JSPM Wagholi Campus Mandal's

fechnology & Research

Wagholl, Pune- 412207

Wagholi, Pune - 412 207.

BSIOTR Inward No:- Attachment: 48436

Particular / Subject :- SPPU.TE E&TC Syllabus 2019 pattern Microcontroller List of Practicals

2. Resume of the resource person Prof. T.V. Kafare

Remuneration By RTG5
Acct Sec/HD-ETC
2019 23

JSPM Corporate Office, Punc

The Founder Secretary,

JSPM & TSSM Group Of Institutes

Katraj, Pune

Subject: Request to release an honorarium to the expert Prof. Tushar Kafare regarding conduction of the workshop

Ref: Letter of Sanction of Proposal JSPM/BSIOTR/16626/2023-24 dated: 01/09/2023

Respected sir,

We from the dept. of E&TC BSIOTR Wagholi conducted an expert lecture and practical sessions on 09/09/2023, 13/10/2023 and 14/10/2023 (3 days) for the TE E&TC engineering students. These sessions were conducted by the expert guidance on PIC -18 Microcontroller, as per the SPPU syllabus of TE E&TC (2019 course) of the subject "Microcontroller course code 304184" as well as "Microcontroller Practical" course code 304188. The detailed workshop report along with 9000 Rs attendance honorarium is enclosed. Please release the (Rupees Nine Thousands Only).

Kindly refer to the account details for the mentioned honorarium.

Name of the resource person	Prof. Tushar Kafare		
Designation	Assistant Professor, STES's Sinhgad College of Engg. Pune		
Educational Qualification	ME (VLSI & Embedded Systems)		
Experience	14 Years		
Expert Area	Embedded Systems & IOT		
Strength of the TE students	63(Average Session wise attendance is attached)+ 9 YD (provisionally admitted)		
	No. of Boys= 41 No. of Girl=31 attended workshop		
Syllabus to be covered	Interfacing of PIC -18 Microcontroller with different peripherals i.e. Group B and Group C for SPPU TE E&TC Syllabus 2019 pattern Experiment No.		
	6,7,8,9,10,11,12,13 and 14		
Total duration of the training	12 Hrs (4 Hrs per Day)		
Total honorarium	(2* 750= Rs.9000		
Total	Rs. 9000 In words Rs. Nine Thousands Only		

Details of Account of resource person:

Name of the Expert	Prof. Tushar Kafare		
Name of the Bank	State Bank of India, Branch ADB, Junnar		
Bank Account Details	31008154974		
IFSC Code	SBIN0006443		
Branch Code	006443		
MICR No.	410002813		

Thanking You

Prof. Sneha D. Dhere

Subject Teacher Microcontroller gal mication to Trike Nagaraj

Dr. Sachin V. Adamane

Bhivard (F&TC) gring of Reincipal want Institute Campus Director TechBSIOTR Research TechBSIOTR esearch CAMP Wagholi Gampus al's Wagholi, Pune- 41ayawant Shikshan Frasarak Magholi, Pune- 41ayawant Shikshan Magholi, Pune- 41ayawant Shiks

Wagholi, Pune - 412 207.