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Volume 1, Issue 1 15th September 2019







Padmabhushan
Dr. Karmaveer Bhaurao
Patil (D,Litt)

Rayatmauli Sou. Laxmibai Bhaurao Patil

EDITORIAL BOARD

- > Prof. J. B. Jagtap
 - Editor in Chief.
- Prof. A. M. Nevase
 - Editor

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Theme for First Issue:
Current

Trends in Electronics

Getting Started

Welcome to the first issue of our newsletter

"ELECTRON". It is an opportunity for us to share relevant activities conducted by Electronics and Telecommunication Engineering

Department of Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil Polytechnic, Satara. It is also useful to share information regarding trends current Electronics and **Telecommunication** Engineering. The "ELECTRON" is distributed

electronically through



the electronic media (Institute Website. Facebook and WhatsApp). It will provide departmental news, upcoming **DESA** events. activities. Industry Speak, From Students Desk- votes From students. Alumni Desk - votes of Alumni, Success Stories of Diploma Holder etc.

Today on occasion of Engineer's Day, we are publishing the first issue of "ELECTRON".

Hereafter, it will be published twice a year. First issue will be published in the month of September and second in the month of March.

Department Profile

Karmaveer Bhaurao Patil Polytechnic, Satara (formerly Karmaveer Bhaurao Patil College of Engineering and Polytechnic, Satara) functioning started from the year 1983 with three courses Construction Tech-Digital nology, **Electronics** and Production Technology. With the developments in engineering field, the Construction Technology & Production **Technology** were Civil changed to Engineering and Mechanical Engineering. Also two additional courses were introduced, Electrical Engineering, Computer Engineering in year 2010 and 2011 respectively.



With growing demand for **Telecommunication** Engineering worldwide, the Digital Electronics course was changed to Electronics and **Telecommunication** Engineering in year 2006. As per industry demand, curriculum of Electronics and **Telecommunication** Engineering has greater emphasis on understanding of facts, fundamental concepts and technology subjects. industry The and society demands are fulfilled by experienced, qualified & motivated faculty, staff and laboratories

of department. Department aspires the overall development of the student through various co-curricular and extracurricular activities. **Students** cultivated are through industry expert lectures, seminars, workshop, skill development and programs industrial visits. Students also are to encouraged organize and participate in various events such as project competition, technical paper presentation, quiz competition, social activities, sports etc.

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Message by Editor in Chief



Prof. J. B. Jagtap
M. E. Instrumentation
Editor in Chief
Head of Department

It gives me immense pleasure to publish the first issue of our departmental newsletter ELECTRON. We are presenting newsletter ELECTRON, which is dynamic and vibrant as the particle universe. This first issue of ELECTRON is devoted to current trends in Electronics. I have taken over as Head of Department (Electronics and Telecommunication) from 1st of June 2019. I feel fortunate to work with the young and dynamic team (faculty staff) and with brilliant students

of our department. Also I have support of Alumni, who are at honorable positions in different organization throughout the globe. The guidance and support by our Alumni has enriched our department. Last year we had best results from our institute Karmaveer Bhaurao Patil Polytechnic, Satara. In the coming years we will continue with the same and will try to top in the Maharashtra State. getting by our students in MSBTE state rank. My dream will get into reality

with your full pledged support. Now a days world is becoming Electronic, every part of our life is surrounded by Electronic equipment. Also, the present trend of automation is going to create boom in the electronic field. (Internet of IoT Things) is going to open new opportunities for budding Electronic Engineers. wish them the very best for their success in their carrier. I thank all our staff. students. faculty, parents. Principal and our Rayat Shikshan Sanstha's authorities for their continuous support and guidance. Also special thanks to Prof. Amit who Nevase. has taken up initiative for this newsletter.

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Principal's Message



Prof K. S. Sheikh Principal

On the occasion of **ENGINEERS** DAY today, I congratulate Prof Jaywant Jagtap, Head of Electronics & Telecommunication Department, his Department Faculty, Staff and Students for taking the initiative and launching the first issue of ELECTRON the half yearly

newsletter. I am very much confident that newsletter ELECTRON will serve as an important link with all the stakeholders of the Polytechnic and the Electronics and **Telecommunication** in Department particular. My best wishes the to department for the

success of newsletter ELECTRON and hope that with more and more inputs from our stakeholders additional features can be included in future issues of the newsletter.

The Polytechnic is confident that ELECTRON will help it in overall Academic Elevation of Institute and the Department.

NEWS FLASH



Prof Vipul Vijaykumar Nalage (Department of Electronics & Telecommunication Engineering)

Completed Master of Engineering (M.E.) in Electronics - August 2019.

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Industry Speaks



Evolving Roles of Diploma Engineers in Industry

Mr. N. P. Deshpande
Chief Human Resources Officer
(CHRO)
Cooper Corporation Pvt. Limited

In the old days, find any Mill or Engineering workshop, there you would always find an indispensable technical supervisor, the man was called as Foreman.

The Foreman used to be normally diploma engineers who have of vears practical experience and would be a great asset, who will see that all that has been planned, is done on shop floor, what may come! The manager of the shop would instruct the foreman and foremen with his crew would make it happen.

The man would have great technical ability as well as knack to handle his crew efficiently as a team. The foeman was a very important link between operational management and the workmen.

Days have gone and no more you can see foremen nowadays probably they and have been replaced by Supervisors who are normally degree engineers. They do have knowledge but many times lack the skill to deliver and the manage crew they work with.

The roles of diploma

engineers have been evolving the over and have years become more divergent depending upon the industry sectors. If you are in auto industry, the Diploma engineers are preferred to run new breed of machines SPMs-CNC, VMC, HMC all state-of-the-art machining centers, automatic assembly lines and robotic lines. The job is to produce using largely the mental skills and less motor skills. In process industry and chemical plants, the diploma engineers

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would have role of controlling and monitoring a section of cascaded automatic lines. distributed having control system, operated from central control room. The diploma engineers in electronic industry will have to work on the workstation performing certain operations.

Over the time thus we can see an evident shift in role of diploma engineers, from a real supervisory to a high degree of operative, from motor skills to mental skills. But there are always opportunities to get the supervisory roles if you have ability to work with people and deliver.

The diploma engineers must learn soft skills along with hard skills.

Now а days companies want engineers, who know, who can do and can teach to others! This role is of a master craftsman or multitasked engineer, who needs no supervision.

NEWS FLASH - PLACEMENT



Miss. Pratiksha Nikam TYEJ - 2018-19

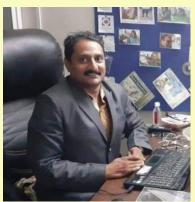


Miss. Shubhangi Borate TYEJ - 2018-19

Miss. Pratiksha Nikam and Miss. Shubhangi Borate
Placed in John Deere India Pvt. Limited, Pune.

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From Alumni Desk



Electronics: Today & Tomorrow

Mr. Chittaranjan Mahajan
Batch -1997
President, Dolphin Educational &
Research Society.

I am proud to be an Electronics Engineer. Now days it is found that popularity **Electronics Engineering** is on negative side. Students not are interested to take admission in the Electronics branch. People are thinking that there is no scope for Electronics Engineering. ls it true? Presently Electronics is playing very important role in all branches of engineering. Electronics everywhere and there are various interdisciplinary branches, developing in association with

Electronics.

Like Mechanical with Electronics become Mechatronics, with Automobile become Autotronics, Computer with **Electronics** become Embedded System. We can say Electronics heart of every modern technology of all the engineering branches. what Then is problem? Where are the opportunities? The problem is that students have very poor knowledge about opportunities in Electronics field. This is because of less reading, beyond the syllabus.

There are number of emerging fields in Electronics which are bringing changes in the world. Hence students must update themselves to the happening in the field of Electronics.

Looking at the current scenario of the market, it is sure that jobs for Electronics Engineering are more than any IT or Computer field. And further, for everyone's surprise, the packages are also drastically more for the skilled Electronics engineer than their coding counterpartners.

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Let's now look at the skills which are required for industries in Electronics. SMD designing, System on Chip, **FPGA** IC programming, designing, Neural

Network, Artificial Intelligence, Machine learning are some of the rated proficiencies which the in Electronics engineer can work on. PCB Additionally,

designing, servicing, repairing, maintenance which initially seems to be low profile but will generate enormous after opportunities gaining expertise in the respective fields.

About DESA

Diploma Electronics Student Association (DESA) is an association formed by the students of Electronics and Telecommunication Engineering Departof ment our polytechnic to foster the growth of knowledge. With the support and guidance of the faculty, Technical and Nontechnical events are organized for



assisting students to among increase knowledge and skills DESA we in planning, delegating, decision making and seminars, to develop a more competitions, positive and realistic presentation, attitude toward themselves, peers and opportunities social interaction

organization Under their members. conduct like various events project paper industrial visits, guest their lectures, soft-skills the development programs, institute. It provides Welcome function for for newcomers to department, etc.

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DESA Office Bearers for AY 2019-20



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Department of Electronics & Telecommunication Engineering
Diploma Electronics Students Association (DESA)





Chairman Mr. J. B. Jagtap Head of Department



Co-ordinator Mr. M. R. Gade



President Miss. Rohini Shirke TYEJ



Vice President Mr. Sourabh Landage SYEJ



Treasurer Miss. Anuja Hirvae SYEJ



Mr. Abhishek Bhosal Class Representative



Miss. Shital Karande Ladies Representativ TYEJ



Mr. Yash Kadam Class Representative SYEJ



Miss. Sarika Shedge Ladies Representative SYEJ



Miss. Vaishnavi Shinde Class Representative FYEJ



Miss. Ishwari Chavan Ladies Representative

From Faculty Desk



Prof. Mangesh R. Gade
M.E. Signals & Systems
Lecturer – E & TC Department

Imagining a life without electronic gadgets seems impossible in today's world. Each and every field in the globe,

find the usage of Electronics and Telecommunication Engineering.
Selecting a branch of engineering from different options is

like searching a needle from a needle stack. It is so much confusing, that is why most of the students end up making wrong

choice. So I am going to write the potential of Electronics and Telecommunication for courses successful career. As figure per provided by the Bureau Labor of Statistics (BLS).It is predicted that the jobs for engineers will grow by 7% from 2016 to 2026.It has also been found that the employment in the Electronics and Telecommunication sector has amplified significantly in the last few years. The reason behind this is positive change of electronics industry and the digital technology. The application of Electronics and Telecommunication fields. such as

satellite and mobile communication. teledigital communication, power electronics, etc. has created amazing career options. Not only but this. also Manufacturing Multiindustries, national Corporations (MNCs), Research-based or industrial corporations. Government Industries, Aerospace company, Consumer electronic manufacturing. Healthcare tools

manufacturing,
Armed forces
(Army/ Air
Force/Navy) and
such many others
recruit candidates
of Electronics and
Telecommunication
background.

Today's electronics engineers are

expert in designing, developing, testing of the electronic equipment. which used in are communication systems, such as smart phone, smart TV, smart watch, processor, tablet. etc. This indicates that, the choice opted by student of Electronics and Telecommunication, is correct, in which they have interest and which offers better career opportunities in the future.

From Student Desk



Mr. Paras P. Sutar Student - Second Year E& TC

Electronics is the study of Electronic components and principles. Electronics is one of the needs of today's generation. Electronics is becoming one of the greatest superpowers in today's generation. I am grateful that, I am studying Electronics.

The Electronics was, is and will be the need of generations to come. Electronics engineering has many sub branches where many researchers are working. But some have become a trend today's world in

of Electronics.

Electronics has made the life easy and wonderful. It has made the things simple and reliable. One of the current trends in Electronics Virtual Reality. Virtual Reality (VR) has made the impossible tasks possible with the help of Electronics. Pilot can practice a Jet plane without entering into plane; doctor can practice transplants and surgery without doing it in real life. This is all because of virtual reality. One can see real life 3D images and videos

with the help of virtual reality goggles (VR goggles). Another trend is smart TV. The TV is one of the Electronics device. we can see in every other house. But, the technology has taken the TV on a next level. There are Android TV, AMOLED TV, LED TV, LCD TV and Curved TV.

The next trend is Robotics. The Robots serving the are human beings for many years. Now a days, Electronics has become so advanced Robots with that. **Human characteristics** are present, called as

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'Humanoid Robots'.

The list of trends in Electronics is endless.

Electronics has made possible. Electronics has made a change

impossible things of 'INDIA TO A DIGITAL INDIA'.

NEWS FLASH



Mr. Kunal Bhamare (Second Year),

Completed Satara Hill Half

Marathon 2019 with Course Time:

01:58:15, Pace: 09:11 min/Km



Mr. Alekari Pushkar (First Year),

Participated in 47th Maharashtra

State Sub Juniors & Cadet State

Judo Championship, Jalgaon in

Month of 2019

Toppers of AY 2018-19



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Department of Electronics & Telecommunication Engineering MSBTE Summer 2019 Examination Topper

Hearty Congratulations!!







Keskar Prathmesh TYEJ- 90.76%



Deshmukh Sayali TYEJ- 90.71%



tibhaskar Arya TYEJ- 90.18%



Yadav Aishwarya TYEJ- 89.94% (ESY 100/100)



Shende Purva TYEJ- 89.53%



Yevale Pooja TYEJ- 85.18%



Borate Shubhangi TYEJ- 82.47%



SYEJ- 82.06%



Shirke Rohini SYEJ- 81.38%



Jadhav Rushikesh TYEJ- 80.65%

Tree Plantation on 1st July, 2019













Expert Lectures



Mr. Amit Ladge - Operational Head,

Prior Web Private Limited, Mumbai

Topic: Stress Management



Mr. Sandip Nalage - Managing Director,

Swara Enterprises, Ratnagiri

Topic: Demands of Electronics Industry

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Academic Calendar- 2019-20 (ODD Semesters)

				Odd					Planner 2019-20
					First	Semes	ter: 26	June to 12 C	October 2019
		1.	ıno 10				1	00/00/0040	01-1-11
MON	TUE	WED	une-19	FRI	SAT	CLIN		26/06/2019	Start of Academic year 2019-20
IVION	TUE	VVED	THU	FRI		SUN		26/06/2019	Display of Tentative Time table (SY/TY) Start of Lecture (SY/TY)
_		_		_	1	2		26/06/2019	Start of Lecture (S1711)
3	11	5 12	6	14	8	9			
10	18	19	13 20	21	15 22	16 23		30/06/2019	Review of Academic Progress by HOD
24	25	26	27	28	29	30	11	00/00/2013	Neview of Academic Frogress by Flob
								ı	
		J	uly-19				Ī	01/07/2019	Tree Plantation, Start of Lecture (FY)
MON	TUE	WED	THU	FRI	SAT	SUN		02/07/2019	Start of Lecture & Practical (SY/TY)
1	2	3	4	5	6	7			
8	9	10	11	12	13	14			
15	16	17	18	19	20	21			
22	23	24	25	26	27	28			
29	30	31					27	31/07/2019	Review of Academic Progress by HOD
		Au	gust-19	9				01/08/2019	1st Defaulter Report (June to July)
MON	TUE	WED	THU	FRI	SAT	SUN			
			1	2	3	4			
5	6	7	8	9	10	11			
12	13	14	15	16	17	18		29/08/2019	Unit Test 1(Second & Third Year)
19	20	21	22	23	24	25	5500	31/08/2019	
26	27	28	29	30	31		21	31/08/2019	Review of Academic Progress by HOD
		Cont	ombor	10		-	1	01/09/2019	0.10 (11. 0. 1/1. 1. 0. 1)
		Sept	ember-	19				04/09/2019	2nd Defaulter Report (June to August)
MON	TUE	WED	THU	FRI	SAT	SUN		05/09/2019	Declaration of result Unit test 1 (SY& TY)
2000000	TOE	VVLD	THO	FKI	SAI			15/09/2019	Inauguration of DESA students organizations Inauguration of "electron" Newsletter, Engineer's Day & Parent
30						1		16/09/2019 &	meet
2	3	4	5	6	7	8		17/09/2019	Unit Test 1(First Year)
9	10	11	12	13	14	15		3 rd Week	Industrial Visit
16	17	18	19	20	21	22		3 rd & 4 th Week	Remedial Lectures for weaker students
23	24	25	26	27	28	29	23	29/09/2019	Review of Academic Progress by HOD
		00	lobor 1	0			ĺ	04/40/0040	2nd Defection Demont (Inc. of Occidents)
MON	TUE	WED	tober-1	1	CAT	CLINI		01/10/2019	3rd Defaulter Report (June to September)
MON	1	2	THU 3	FRI 4	SAT 5	SUN 6		09/10/2019	Unit Test 2(Second & Third Year)
7	8	9	10	11	12	13		11/10/2019 12/10/2019	Review of Academic Progress by HOD
14	15	16	17	18	19	20		15/10/2019	Declaration of result Unit test 2 (SY& TY)
21	22	23	24	25	26	27		14/10/2019	
28	29	30	31	25	20	21	06	29/10/2019	MSBTE Practical Examination
				l			88	20/10/2010	
November-19								14/11/2019	MODIF TI F ' I'
MON	TUE	WED	THU	FRI	SAT	SUN		05/12/2019	MSBTE Theory Examination
				1	2	3			
4	5	6	7	8	9	10			
11	12	13	14	15	16	17		,	
18	19	20	21	22	23	24		Total instruc	tional days: FY- 75 & SY/TY – 88
25	26	27	28	29	30				Holidays
			ember-					12/08/2109	Bakari ID
MON	TUE	WED	THU	FRI	SAT	SUN		17/08/2019	Parsi New Year
30	31					1		02/09/2019	Ganesh Chaturthi

25 to 29 October 2019 – Winter Break

10/09/2019

02/10/2019 Gandhi Jayanti 08/10/2019 Dussehra

22/09/2019 Karmaveer Bhaurao Patil Birth Anniversary

Academic Calendar- 2019-20 (EVEN Semesters)

Even Semester (SECOND/FOURTH/SIXTH) Planner 2019-20 First Semester: 09 December 2019 to 27 March 2020

							i c			
December-19								09/12/2019	Start of Lecture & Practical (FY/SY/TY)	
MON	TUE	WED	THU	FRI	SAT	SUN				
30	31					1		2 nd Week	Industrial Visit	
2	3	4	5	6	7	8		3 rd Week	Guest Lecture	
9	10	11	12	13	14	15				
16	17	18	19	20	21	22				
23	24	25	26	27	28	29	17	31/12/2019	Review of Academic Progress by HOD	
							p)		The Order St. U. Vand Advance St. U.	
			uary-2					01/01/2020	1st Defaulter Report (December)	
MON	TUE	WED	THU	FRI	SAT	SUN		2 nd Week		
_		1	2	3	4	5		2 nd Week	DESA Activity	
6	7	8	9	10	11	12				
13	14	15	16	17	18	19		3 rd Week	Industry Expert Lecture	
20	21	22	23	24	25	26		4 th Week		
27	28	29	30	31			27	31/01/2020	Review of Academic Progress by HOD	
		Feh	ruary-2	0		101	ľ	01/02/2020	2nd Defaulter Report (December to January)	
		1 00	2	-		1		05/02/2020		
MON	TUE	WED	THU	FRI	SAT	SUN		07/02/2020	Unit Test 1(First, Second & Third Year)	
WICH	IOL	VVLD	1110	TIXI	1	2		10/02/2020	Declaration of result Unit test 1 (FY, SY& TY)	
3	4	5	6	7	8	9		4 th Week		
10	11	12	13	14	15	16		Feb 2020	PolyQuest 2K20	
17	18	19	20	21	22	23		3 rd & 4 th Week	Remedial Lectures for weaker students	
24	25	26	27	28	29		20	29/02/2020	Review of Academic Progress by HOD	
							1	0.4.00.0000		
March-20								01/03/2020	3rd Defaulter Report (December to February)	
MON	TUE	WED	THU	FRI	SAT	SUN		25/03/2020	Unit Test 2(First, Second & Third Year)	
30	31		_	_	-	1		27/03/2020		
2	3	4	5	6	7	8		28/03/2020	Review of Academic Progress by HOD	
9	10	11	12	13	14	15		30/03/2020	Declaration of result Unit test 2 (FY, SY& TY)	
16	17	18	19	20	21	22	40	31/03/2020	MSBTE Practical Examination	
23	24	25	26	27	28	29	19 83	09/04/2020		
	April-20							16/04/2020	NAME OF THE OWNER O	
MON	TUE	WED	THU	FRI	SAT	SUN		07/05/2020	MSBTE Theory Examination	
IVIOIN	TOL	1	2	3	4	5	-	01/03/2020		
6	7	8	9	10	11	12		Total instruc	tional days: FY/SY/TY – 83	
13	14	15	16	17	18	19			Holidays	
20	21	22	23	24	25	26		26/01/2020	Republic Day	
27	28	29	30					19/02/2020	Shiv Jayanti	
-		0.0000000000000000000000000000000000000	lay-20			b		21/02/2020	Mahashivratri	
MON	TUE	WED	THU	FRI	SAT	SUN		10/03/2020	Holi	
				1	2	3		25/03/2020	Gudi Padwa	
4	5	6	7	8	9	10		02/04/2020	Ram navami	
11	12	13	14	15	16	17		06/04/2020	Mahavir Jayanti	
18	19	20	21	22	23	24		14/04/2020	Babasaheb Ambedkar Jayanti	
25	26	27	28	29	30	31		01/05/2020	Maharashtra Day	
							93 ·	07/05/2020	Buddha Purnima	