


Personal Information:

1.	Name Designation Office Address Telephone No. Email Residential Address Mobile No.	<p>Dr. Nayak Dileep Kumar Krishna Principal V.P.M.'s Polytechnic, 'Jnanadweepa', College Campus, Chendani, Bunder Road, Thane (W.) – 400601 (MS). 9122-2544 65 51 / 9122-2536 44 94 / 9122-2533 98 72 dknayak@vpmthane.org</p>  <p>S3/903, Imperial Heights, Opp. D.K. Stadium, Thane (West) – 400601. Maharashtra State. 9004690478/ 9029823191</p>						
	2.	Date of Birth	Sixth July Nineteen Sixty Two (06-07-1962) (61 years)					
3.	Educational Qualification	Sr. No.	Qualification	Institute / School	University / Board	Year of passing	% of Marks	Class Obtained
		1	Ph.D (Electronics Engg.)	VJTI, Mumbai	Mumbai	2016		-
		2	M.E. (Comp. Engg.)	VJTI, Mumbai	Mumbai	1991	62.70	First
		3	B.E. (Elec. & Comm. Engg.)	SJCE, Mysore	Mysore	1984	70.63	Distinction
4.	Experience in Years	Teaching : 37						
		Industry : 01						
		Research : Ph.D. (Electronics Engineering) from Victoria Jubilee Technical Institute Mumbai, Mumbai University (2017) – Thesis titled – Hydrogen Storage Studies of Ammonia Borane.						
5.	Ph.D. Candidates Guided	Registered Ph.D. Supervisor at JJT University, Rajasthan to guide Ph.D. scholars.						
		Name of Candidate		Research Topic			Year of Completion	
		Mr. Patil Anil Bhika		Design and Development of Power Conditioning System with Optimum Performance for Fuel Cell Applications			2022 JJT University, Rajasthan	
6.	Member / Fellowship of Professional Societies	1. Fellow : The Institution of Engineers(India) (F-118753-4) 2. Member Instrument Society of America 3. Life Member Indian Society for Technical Education (LM9293) 4. Member Computer Society of India 5. Life Member Indian Institution Of Industrial Engineering (LM 9297 21)						

7. Professional Record (Reverse chronological order):

Sl. No.	Name & Address of the Employer	Period of service in each post		Designation of post held	Nature of work and level of responsibilities
		From	To		
1	Vidya Prasarak Mandal, Thane Dr. Bedekar Vidya Mandir, Vishnu Nagar, Naupada, Thane (West)-400602, Maharashtra, India.	01-06-2004	Onwards	Principal	Teaching, overall Administration, Policy implementations, Ensuring conducive learning ambience
2	Institute - V.P.M.'s Polytechnic, Thane	01-01-1996	31-05-2004	Additional Charges as Vice Principal	Development of Lab, Modernisation, Teaching, Arranging Training programmes
3		01-08-1989	31-05-2004	Head of the Department	Development of Lab, Modernisation, Teaching, Arranging Training programmes
4		01-08-1985	31-07-1989	Lecturer and Incharge of the Department	Delivery of subject lecture as per teaching plan

8. Industrial Experience:

Sl. No.	Name & Address of the Employer	Period of service in each post		Designation of post held	Nature of work and level of responsibilities
		From	To		
1	M/s B.E.E. Electronic Pvt. Ltd., Mumbai	01-01-1985	31-07-1985	Development Engineer for Photocopier Machines	Development of SMPS for Photocopier machines
2	Siemens Limited, Kalwa	01-06-1990	31-07-1990	Trainee	Two months industrial training in software division as a part of M.E. Programme

9. Papers presented in National / International Seminars / Symposia:

Sl. No.	Title of Paper	Name of Seminar	Year
1	Should Industries affiliate Institutes	SGGS College of Engineering and Technology, Nanded	27-28 Jan. 1991
2	Industry – Institute Interaction V.P.M.'s Polytechnic, Thane – A case study	ISTE XXI–Annual convention, Anna University, Madras	14-16 Dec. 1991
3	Role of Technical Institutions and Industries	ISTE XXIII–Annual convention, KREC, Suratkal, Karnataka	26-28 Dec. 1993
4	Employability through IT	ISTE IX–State Convention and National Seminar, VYWS's College of Engineering, Amravati	4-5 Feb. 2005

Sl. No.	Title of Paper	Name of Seminar	Year
5	Impact of globalisation and IT revolution on Technical education	ISTE IX–State Convention and National Seminar, VYWS's College of Engineering, Amravati	4-5 Feb. 2005
6	Storage of Hydrogen through Carbon Nanotubes	International Hydrogen Energy Congress and Exhibition, Istanbul, Turkey	13-15 July. 2005
7	Energy of Future – Hydrogen	National Seminar on Alternative Energy Sources, V.P.M.'s Polytechnic, Thane	27-28 August 2005
8	Socio-economic aspects of Hydrogen Energy-Indian Perspective	International Forum “Hydrogen Technologies for Energy Production”, Moscow, Russia Supported by AICTE, New Delhi	6-10 February 2006
9	Storage of Hydrogen in Carbon Nanotubes	International Forum “Hydrogen Technologies for Energy Production”, Moscow, Russia Supported by AICTE, New Delhi	6-10 February 2006
10	Storage of Hydrogen in Carbon Nanotubes	International Workshop on Hydrogen Energy Production, Storage and Application, Jaipur, Rajasthan	6 November 2006
11	Role of Polytechnic in Technology Change Over for Alternative Energy Areas	XI State Convention of ISTE, Government College of Engineering, Aurangabad	2-3 December 2006
12	Innovation & Technology Transfer Through Polytechnic Institutions	37 th ISTE Annual Convention and National Seminar, Manipal Institute of Technology, Manipal	17-19 December 2007
13	Ethics in Professional Education	37 th ISTE Annual Convention and National Seminar, Manipal Institute of Technology, Manipal	17-19 December 2007
14	Nanotechnology in Corrosion Prevention	National Conference on Latest Trends in Nanotechnology, V.P.M.'s Polytechnic, Thane	5 th January 2008
15	Optimization of Hydrogen Storage and Addressing Safety Issues (Poster)	International Conference on Hydrogen and Hydrogen Storage- Methods and Materials, Indian Institute Of Science, Bangalore, India	3-6 January 2009
16	Renewable Energy Efforts - Special Focus on reduction of Global Warming	Salzburg Seminar Session 463 on “Greening the Minds: Universities, Climate Leadership, and Sustainable Futures”, Salzburg, Austria Fulbright-Hays Federal Assistance Award of U.S. Department of State	11-16 July 2009
17	Renewable Hydrogen Fuel for automobiles	Vision 2011 – National level Conference on Emerging trends in Technology at BVIT-Navi Mumbai Received Best Paper Award	11 th March 2011

Sl. No.	Title of Paper	Name of Seminar	Year
18	Hydrogen Storage In Amine Borane Complexes	The 3 rd International Conference on Fuel Cell & Hydrogen Technology (ICFCHT 2011), Kuala Lumpur, Malaysia	22-23 November 2011
19	Future Polytechnics	43 rd ISTE National Annual Convention, TKIET, Warananagar, Kolhapur	19-21 December 2013
20	Potential of Hydrogen Fuel for Automotive Applications	Tech Streams SM National Conference, MES Pillai HOC College of Engineering & Technology, Rasayani	21-22 February 2014

10. Journal Publications

1. Dileep Kumar, S.K. Mahajan, H.A. Mangalvedekar (2013), Dehydrogenation of Ammonia Borane with catalytic thermal decomposition, International Journal of Advancements in Research & Technology, Volume 2, Issue 7, July-2013, pp. 478-483, ISSN 2278-7763.
2. Dileep Kumar, S.K. Mahajan, H.A. Mangalvedekar (2014), Nano Nickel Catalytic Dehydrogenation of Ammonia Borane, Journal of Materials for Renewable and Sustainable Energy, Volume 3, Number 2, pp. 1-7 ISSN 2194-1459.
3. Dileep Kumar, H.A. Mangalvedekar, S.K. Mahajan, A.C. Gangal (2015), Kinetic Studies of Pristine and Nanonickel catalyzed Ammonia Borane, Journal of Alternate Energy Sources and Technologies, Volume 6, Issue 1, pp. 7-13, ISSN 2321-5186.
4. Dileep Kumar, H.A. Mangalvedekar, S.K. Mahajan (2016), Fuel Cell Power Conditioning for Low Power Applications, Journal of Electronic Design and Technology, Volume 7, Issue 3, pp.13-23, ISSN 2321-4228.
5. Dileep Kumar, Patil Anil Bhika, Anupama Deshpande (2021), Role of renewable energy and high step up dc-dc converter in Aatmanirbhar Bharat, Renewable Research Journal, Volume 9 Issue -4, pp.136-142, ISSN 2321-1067.
6. Dileep Kumar, Patil Anil Bhika, Anupama Deshpande (2021), Coupled Inductor Based High Step-Up DC-DC Converter for Fuel Cell System Applications, Renewable Research Journal, Volume 9 Issue-9, pp.80-87, ISSN 2321-1067.
7. Dileep Kumar, Patil Anil Bhika, Drakshayani Desai (2022), A Coupled Inductor Based Cascaded High Step Up Dc-Dc Converter With Low Duty Cycle, Journal of the Maharaja Sayajirao University of Baroda, Volume-56, No.1(II), pp. 87-97, ISSN :0025-0422.

11. Conferences Organized by V.P.M's Polytechnic, Thane

Sl. No.	Title of Conference	Supported By	Year
1	One Day National Seminar on Pollution of Water Bodies in Urban Area	<ul style="list-style-type: none"> • AICTE, New Delhi 	08-08-2004
2	Two Days National Seminar on Alternative Energy Sources	<ul style="list-style-type: none"> • Ministry of Non-conventional Energy Sources, Govt. of India. 	27-08-2005 to 28-08-2005
3	Two Days National Seminar on Geo Informatics	<ul style="list-style-type: none"> • Department of Information Technology, Govt. of India. • Indian Space Research Organization, • MSBTE, Mumbai • Lavasa Corporation Ltd, Mumbai 	08-12-2006 to 09-12-2006

Sl. No.	Title of Conference	Supported By	Year
4	One Day National Seminar on Innovations in Safety, Health and Environment	<ul style="list-style-type: none"> • Syngenta India Ltd, Mumbai • Huntsman(AISA Pacific) Pvt. Ltd, Singapore. • Reliance Industries Ltd, Mumbai 	03-02-2007
5	One Day National Conference on Latest Trends in Nanotechnology	<ul style="list-style-type: none"> • Azim Premji Foundation Trust, Mumbai • L & T infotech, Mumbai • MSBTE, Mumbai • Raymonds India Ltd. , Mumbai 	06-01-2008
6	One Day National Conference on Corrosion Prevention through Advanced Technologies	<ul style="list-style-type: none"> • Hunstman Advanced Materials, Mumbai • Tata Power Ltd., Mumbai 	18-10-2008
7	One Day National Conference on Biometrics, Rfid, And Emerging Technologies For Automatic Identification"	<ul style="list-style-type: none"> • MSBTE, Mumbai • Swastik Power Electronics(I) Pvt. Ltd, Thane. 	10-01-2009
8	One Day National Conference on "Advancements In Medical Instrumentation"	<ul style="list-style-type: none"> • MSBTE, Mumbai • Lab INDIA, Thane • Satramdas Gases Pvt. Ltd., Navi Mumbai 	19-09-2009
9	One Day National Conference on "Safety Practices For Peace, Productivity And Profits"	<ul style="list-style-type: none"> • Tata Power Ltd., Mumbai • ITD Cementation Ltd., Mumbai • AICTE, New Delhi 	10-10-2009
10	One Day National Conference on "Broader Perspectives of Language, Thinking and Technology"	<ul style="list-style-type: none"> • MSBTE, Mumbai • Canara Bank • Chemical Process Equipments, Mumbai 	03-7-2010
11	One Day National Conference on "Technology – A Strategy for Safety in Infrastructure"	<ul style="list-style-type: none"> • Hunstman Advanced Materials, Mumbai • ITD Cementation Ltd., Mumbai • Chemical Process Equipments, Mumbai • Ambuja Cements, Mumbai 	23-10-2010
12	One Day National Conference on "Future Power Systems for Green & Clean World"	<ul style="list-style-type: none"> • Aditya Vidyut Appliances Ltd., Thane • MSBTE, Mumbai • Sachin Travels Ltd., Mumbai 	20-08-2011
13	One Day National Conference on "Progress and Prosper through Entrepreneurs & Intrapreneurs"	<ul style="list-style-type: none"> • ITD Cementation India Ltd., Mumbai • Asian PPG, Mumbai • Chemical Process Equipments Pvt. Ltd., Mumbai • Aditya Vidyut Appliances Ltd., Thane 	15-10-2011
14	One Day National Seminar on "Emerging Trends in Solar Technologies"	<ul style="list-style-type: none"> • Ministry of New and Renewable Energy, New Delhi 	05-01-2013
15	National Conference on "Process Safety Management"	<ul style="list-style-type: none"> • Cinque Solution Pvt. Ltd, Andheri, Mumbai 	04-01-2014
16	Two Days National Conference on "Next Generation Electronic"	<ul style="list-style-type: none"> • BRNS Grant from BARC, Mumbai • MSBTE, Mumbai 	16-01-2016 to 17-01-2016

Sl. No.	Title of Conference	Supported By	Year
17	One Day National Conference on "Industry Expectation from safety Managers"	<ul style="list-style-type: none"> • ACC Ltd., Thane • Safety Messenger, Mumbai • Canara Bank • TJSB Bank • NKGSB Bank • Netel Chromotographs, Thane 	07-02-2015
18	One Day National Conference on "Life Safety Today & Tomorrow"	<ul style="list-style-type: none"> • MSBTE, Mumbai • GP Parsik Bank • State Bank of India • Canara Bank • Eduforce, Mumbai 	19-12-2015
19	One Day National Conference on "Environment, Health & Safety"	<ul style="list-style-type: none"> • MSBTE, Mumbai • GP Parsik Bank 	17-12-2016
20	Advancement in Renewable Energy Technologies	<ul style="list-style-type: none"> • MSBTE, Mumbai • ISTE 	22-12-2017
21	Road to Health and Safety through Environment Protection	<ul style="list-style-type: none"> • MSBTE, Mumbai • ISTE • GP Parsik Bank • Additional Ambarnath Manufacturer's Association(AAMA) • PURAJ Chemicals, Ambernath • N R Colours Ltd, Mumbai • PaintTech Consultants, Mumbai • Canara Bank • Venus Safety & Health Pvt. Ltd., Mumbai 	17-02-2018
22	IoT-Reconnecting the World	<ul style="list-style-type: none"> • MSBTE, Mumbai • ISTE • Tata Coomunications 	15-12-2018
23	Emerging Trends in Artificial Intelligence and Big Data - A Journey into Future	<ul style="list-style-type: none"> • MSBTE, Mumbai • ISTE 	21-09-2019
24	Smart Technology in Occupational Environment Health Safety-Conference and Awards	<ul style="list-style-type: none"> • MSBTE, Mumbai • Venus • KARAM • VES Polytechnic, Chembur • Aktion, Assurance to Life • Thane Belapur Industries Association • Canara Bank • Divya Media • ISTE 	21-12-2019
25	Industry 4.0	<ul style="list-style-type: none"> • MSBTE, Mumbai • ISTE 	27-10-2020 & 28-10-2020
26	Technological Innovations at Workplace Safety (Virtual Mode)	<ul style="list-style-type: none"> • MSBTE, Mumbai • ISTE 	23-04-2021 & 24-04-2021

Sl. No.	Title of Conference	Supported By	Year
27	Sensors In Automation (Virtual Mode)	<ul style="list-style-type: none"> MSBTE, Mumbai ISTE 	19-11-2021 & 20-11-2021
28	Battery Electric Vehicles & Related Technologies (Virtual Mode)	<ul style="list-style-type: none"> MSBTE, Mumbai ISTE 	16-04-2022

12. Conferences/Workshops/Training Programmes Attended

Sl. No.	Title of Conference/Workshop/Training Programme	Organised/Conducted By	Year
1	Two day CEP course on Fuel Cells	Indian Institute of Technology (IIT) Bombay	16-17 December 2010
2	CEP International Course on Nanotechnology for Energy Applications	Indian Institute of Technology (IIT) Bombay	1-12 December 2008
3	Two week workshop on Introduction to Research Methodologies	Indian Institute of Technology (IIT) Bombay	25 June – 4 July 2012
4	Graticule 2005	GIS Development and CSDMS, New Delhi	3-4 October 2005
5	36 th Annual Convention & National Seminar on Quality, Sustainability and Social Responsibility: Interfaces in Technical Education in the Context of Globalisation	Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu	14-16 December 2016

13. Collaboration, MOU, National / International Linkages, Industry-Institute Interaction :

- I had been interacting with various industries for mutual benefit. Thane being one of the industrial cities we have good scope for different types of interactions such as industrial visit, guest faculty from industry, placement to students and training programme for industry workers. We have organized many training programmes for industrial workers in companies during 1990-2004 at the following companies.

- ApLab Electronics India Ltd.
- Bayer India Ltd.
- Gharda Chemicals Ltd.
- Colour Chem Ltd. etc.

A case paper in this activity has already been presented in ISTE convention during the year 1991.

- MOU with Northern College, Timmins Ontario, Canada**

For Education and employment opportunities for Diploma holders from MSBTE offering

- Advanced Diploma in Electrical Engineering Technology
- Industrial Diploma in instrumentation Engineering Technology.
- College Diploma in Computer Engineering Technician w.e.f. Academic year 2010-11.

❑ V.P.M's Polytechnic, Institute Innovation Cell

Ministry of Human Resource Development (MHRD), Govt. of India (Presently -Ministry of Education) has established 'MHRD's Innovation Cell (MIC)' to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs). MIC has envisioned encouraging creation of 'Institution's Innovation Council (IICs)' across HEIs.

The Institution's Innovation Council of VPM's Polytechnic's was inaugurated on 7th December 2018. **The institute has received 4 stars from MoE reflecting an extra ordinary performance during 2020-21. In the same year, institute has also been selected as one of the top 50 mentor institutes to mentor 5 mentee institutes across the country** under the Mentor Mentee scheme funded by AICTE.

Academic year	IIC driven Activity	MIC driven Activity	Self-driven Activity	Total	Star Rating
2021-22	10	10	25	45	3 ½ Stars
2020-21	10	7	24	41	4 Stars
2019-20	15	22	11	48	4 ½ Stars
2018-19	4	4	4	12	3 Stars

14. Member / Chairman of Boards or Committees:

Sl. No.	Institute / Board	Designation	Committee	Period Since
1	Government Polytechnic, Mumbai	Member	Board of Studies	01-01-2000
2	M.H.S.S. Polytechnic, Byculla Mumbai	Member MSBTE- Nominee	Board of Studies	01-01-2004
3	KJS Polytechnic, Vidyavihar Mumbai	Member	Board of Studies	01-01-2004
4	MSBTE, Mumbai	Member	State Level Courses Committee	03-01-2004
5	Industry Education Partnership Cell	Member	State Level Committee formed by Maharashtra Economic Development Council & MSBTE	01-08-2004
6	Curriculum committee of Dr. B.R. Ambedkar Polytechnic, Andaman & Nicobar Islands affiliated of M.S.B.T.E. Mumbai	Member	State Level Committee formed by MSBTE	01-08-2004
7	Board of Apprenticeship Training Western Region, Mumbai. (BOAT)	Member	Governing Council	31-12-2006 To 31-12-2009

Sl. No.	Institute / Board	Designation	Committee	Period Since
8	MSBTE, Mumbai	Chairman	State Level courses committee for Curriculum Development of State Govt. Approved Short Term Diploma/Advanced Diploma programmes	2017-18 2018-19 2021-22 2022-23

15. Awards Received:

- a. Received Appreciation Award for Vocational Excellence on Engineer's Day 15th September 2006 from rotary Club of Thane North End.
- b. Received "Rashtriya Vidya Saraswati Puraskar" on Wednesday the 11th April 2007 from International Institute for Education and Management (IIEEM), New Delhi in recognition of Outstanding Achievements in Technician Education.
- c. Received "**Rajarambapu Patil National Award for Promising Engineering Teacher (below 50 years of age)**" for creative work done in Technical Education (Polytechnics) from **Indian Society for Technical Education (ISTE), New Delhi** for the year 2008.
- d. Received **Indian Society for Technical Education (ISTE) - Narsee Monjee National Award for Best overall Performance for Polytechnic** in Maharashtra State for the year 2009, 2015.
- e. Received the **Best Chapter of ISTE Maharashtra and Goa section** for the years 2009, 2017, 2020
- f. Received "**ISTE-Ranganathan Engineering College National Award for Best Polytechnic Principal**" from Indian Society for Technical Education (ISTE), New Delhi for the year 2014.

Date : 16/02/2024

Place : Thane

Dr. Dileep Kumar Krishna Nayak
Principal