


## Faculty Profile

<b>Name of Faculty</b>		:	P B Karandikar		
<b>Qualification, University and Year of graduation</b>		:			
<b>UG</b>		:	BE (Electrical), UoP.1994		
<b>PG</b>		:	ME (Electrical), UoP.1997		
<b>Area of Specialization</b>		:	Control Systems		
<b>PhD</b>		:	UoP, 2013		
<b>Area of Specialization</b>		:	Electrical Engineering		
<b>Total</b>	<b>Teaching</b>	<b>In AIT</b>	21		
		<b>Outside AIT</b>	Nil		
<b>Experience:</b>	<b>Industrial</b>	-	Nil		
<b>Designation (Administrative positions, if any)</b>		:	College Examination Officer		
<b>Date of joining the institute</b>		:	16-08-1994		
<b>Approval Status</b>		:	Approved		
<b>Promotions (In AIT)</b>		:	Lecturer to Sr lecture to Asst Professor to Associate Professor.		
<b>Load taken (from last 5 years)</b>			<b>Year</b>	<b>Sem I</b>	<b>Sem II</b>
		:	2011	14	15
		:	2012	14	15
		:	2013	14	15
		:	2014	14	15
		:	2015	11	-
<b>Patents</b>		:	08 filed and published		
<b>Number of research publications</b>					
<b>In Journals and conferences Since joining</b>		:	70		
<b>IPRs</b>		:	08 filed and published		
<b>R&amp;D and consultancy work With amount</b>		:	Over 10 lakhs, No consultancy		
<b>Holding an incubation unit</b>		:	Nil		
<b>Interaction with Outside world</b>		:	Invited talks and examiners by other universities		

Workshop / FDP Seminar/ STTP attended	Int. Conf.	Nat. Conf.	Resource Person	Industrial Visits /Projects /MOUs	Workshop /FDP/Seminar /Conf. Organized	Committee Work /Others
25	30	37	25	10	Nil	10

I. List of Publications: :		
International Journal	:	03
International Conference	:	30
National Journal	:	11
National Conference	:	22
II. List of Books Published		
	:	01

Sr. No.	Name of Book	Publisher	Month & Year
1	Basic Electrical Engineering	Scitech	Aug 2011

### III. List of IPR's

- 1) Method of manufacturing electrode for supercapacitor, P B Karandikar, D B Talange, 2858/MUM/2010, Filed on 2010-10-14, Publication date 2011-01-07
- 2) Regenerative braking in electric two wheeler using supercapacitors, P B Karandikar, D B Talange, Amit Singh, Raju Pal, Gary Singh, Anshuman Sarkar, 843/MUM/2011, Filed on 2011-03-23, Publication date 2011-09-16
- 3) Sandwich type supercapacitor making process, P B Karandikar, D B Talange, Akshay Dekate, Atul Singh, N S Prasun, 841/MUM/2011 Filed on 2011-03-23, Publication date 2011-09-16
- 4) Zigzag structured ultra-capacitor, Shailendra, Akansha Dixit, Amal Paul, hema Upriti, Dr. P. B. Karandikar, 1442/MUM/2014, Filed on 2014-04-23, Publication date 2014-05-16
- 5) Intelligent self start unit using supercapacitor, Akshay Dekate, Akansha Dixit, Dr P B Karandikar, 486/MUM/2015, Filed on 2015-02-16, Publication date 2015-04-10
- 6) Laboratory test setup for testing model of wind turbine, Datta Chavan, Akansha Dixit, Avinash Gupta, Mehak Dhawal and Dr P B Karandikar, 485/MUM/2015, Filed on 2015-02-16, Publication date 2015-04-10
- 7) Zero turning radius vehicle using wireless steering and modified differential gear system, Chandan Kumar Verma, Devesh Kumar Gour, Prateik N and Dr P B Karandikar, 2067/MUM/2014 A, Filed on 2014-06-26, Publication date 2014-07-18
- 8) Automobile hybrid braking system, Chandan Kumar Verma, Devesh Kumar Gour, Prateik N, Dr P B Karandikar, 2068/MUM/2014 A, Filed on 2014-06-26, Publication date 2014-07-18

**IV. Details of R&D:**

S#	Description	Year	Amount	Sanctioning Agency
1	Development of SC	2008	4,00,000	DSIR
2	Design and analysis of HC	2009	3,00,000	BCUD
3	Electrode for SCs	2013	2,00,000	m/s Madhav Capacitors, Pune
4	Application of SC for 2 wheelers	2015	2,00,000	BCUD
5	Innovative earthing system	2015	1,50,000	BCUD

**V. Workshop/STTP/Seminars Attended:**

Sr No	Name	Year/Date	National /International	Organiser
1	Control systems	2014	STTP	IITB and COEP
2	Nuclear Energy	2015	STTP	BARC & COEP
3	FDP	2014	FDP	Vishay Components
4	School of pulse power	2012	FDP	BARC and VJTI
5	PV system	2011	FDP	COEP and IITB
6	MATLAB	2010	FDP	COEP

**VI. List of Conferences Attended:**

Sr No	Name	Year/Date	National /International	Organiser
1	International Conference on corrosion	2012	International	COEP
2	Power Quality monitoring and mitigations	2013	National	COEP

**VII. Resource Person Details:**

Sr No	Date	Description	Place and Target Audience	Role of individual
1	24 Sept 2015	Selection of Motors	Indira college	Invited talk
2	06 Oct 2015	TE syllabus revision committee member	BVCOE Pune	Subject expert

**VIII. Industrial Visits/Projects**

<b>Sr No</b>	<b>Date</b>	<b>Description</b>	<b>Year of Students</b>	<b>Role of individual</b>
1	Aug 2015	BLDC Motor drive design	BE	As a guide
2	Aug 2015	Meeting with MD, Vishay Components	-	For research Project
3	Aug 2015	Meeting with Mr D M Tagare, Chairman, Madhav Capacitors	-	For research Project

**IX. Workshop/STTP/Seminar/FDPs organized: Nil**

**X. Committee work/Reviewer/Session Chair: Nil**