VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA, BURLA

(Formerly University College of Engineering, Burla)

ADVERTISEMENT FOR Ph.D PROGRAMME SPRING- 2013

No. VSSUT/ACD/

Dated:

The Veer Surendra Sai University of Technology, Odisha, Burla invites application for admission to Regular/Sponsored Ph.D Programme for Spring – 2013 in the broad disciplines of Engineering (Civil Engineering, Computer Science and Engineering, Electrical Engineering, Electronics & Telecommunication Engineering, Mechanical Engineering, Production Engineering) & Basic Science (Chemistry, Physics & Mathematics).

The interested candidates may download the application form and submit a hard copy of the signed completed application alongwith non-refundable demand draft of Rs.500/- (Rs.200/- in case of SC/ST candidates) in favour of VSSUT, Burla payable at Syndicate Bank (Code - 8062) or SBI, Burla (Code - 2034) and send the same by Speed Post only so as to reach the Registrar, VSSUT, Burla by 30.03.2013. The envelope containing the application should be super scribed as "Application for Ph.D Programme" alongwith the name of the department as applicable. Financial assistance shall be provided to few full time Ph.D scholars in each department as per the University guidelines.

For detailed information, please visit University website www.vssut.ac.in

The authority reserves the right to accept/reject any or all the applications or the entire selection process without assigning any reason thereof.

Sd/-Registrar

Memo No.VSSUT/ACD/

Dated:

Copy to:

- 1. University Notice Board
- 2. Dean, Faculty & Planning with a request to display the advertisement in University website alongwith information for admission to Ph.D Programme, Spring-2013 (13 pages)
- 3. All Deans/HODs/COF/COE for information & necessary action.
- 4. Display line, Saheed Nagar, Bhubaneswar with a request to publish the notice in daily Samaj, (All Odisha Edition) & Times of India (Odisha Edition) on or before **15.03.2013** using minimum space in I&PR rate as applicable to Government Educational Institute/Universities. The bills in triplicate along with copy of the concerned issue may be submitted for necessary payment after the publication.
- 5. P.A to V.C for kind information of Hon'ble Vice-Chancellor.
- 6. Registrar, BPUT/IGIT/NIT/IIT, Kharagpur/IIT, Bhubaneswar/ Principal, CET, Bhubaneswar with a request to display it on their Notice Board for information of students.

REGISTRAR

INFORMATION FOR ADMISSION TO Ph.D. PROGRAMME, FOR SPRING 2013 DETAILED PROGRAMME

Programme	Last date of Receipt of Application by Speed Post	Last date of display of short listed candidates in VSSUT Website	Date of the Written Test & Interview at VSSUT, Burla Time: 09.00 AM	Last date of Publication of list of Selected candidates in VSSUT Website	Date of Admission and Fees collection	Date of Commencement of Ph.D. Programme
Ph.D (Engg.)	30-03-2013	12-04-2013	27-04-2013	11-05-2013	04-06-2013	01-07-2013
Ph.D (Science)	30-03-2013	12-04-2013	27-04-2013	11-05-2013	04-06-2013	01-07-2013

The following Departments of the University are offering Ph.D Programme

Sl.No.	Name of the Departments			
1	Civil Engineering			
2	Computer Science and Engineering*			
3	Electrical Engineering			
4	Electronics & Telecommunication Engineering			
5	Mechanical Engineering			
6	Production Engineering			
7	Chemistry			
8	Mathematics			
9	Physics			

^{*} Candidates of categories – 2 (Full time students external fellowship, 4 (VSSUT faculty members), and 6(Project scholarship) only shall be given admission to Ph.D Programme in the Department of Computer Science and Engineering.

1. QUALIFYING DEGREES FOR ADMISSION TO Ph.D PROGRAMME

Sl.No.	Disciplines	Requisite Academic Qualification
1	Civil Engineering (CE)	B.Tech/M.Tech in Civil Engineering/ Environmental Engineering/Naval Architecture & Ocean Engg/Aero Space Engg/Building Science & Technology
2	Computer Science and Engineering(CSE)	B.Tech/M.Tech in Computer Science & Engg./ Information Technology for Ph.D in Engg/ MCA or M.Sc. in Computer Science for Ph.D in Science
3	Electrical Engineering (EE)	B.Tech/M.Tech in Electrical Engg./Electrical & Electronics Engg.
4	Electronics & Telecomm. Engg.(ETC)	B.Tech/M.Tech in Electronics & Instrumentation Engg./ Electronics & Telecommunication Engg/ Electronics & Communication Engg / Electrical and Electronics Engg./Electonics & Electrical Engg.
5	Mechanical Engineering (ME)	B.Tech/M.Tech in Mechanical Engineering/ Production Engineering/ Manufacturing Science & Engg./Industrial Engg./Metallurgy & Materials Engineering/Power Plant Engg.
6	Production Engineering (PE)	B.Tech/M.Tech in Production Engineering / Manufacturing Science & Engg./ / Mechanical Engineering / Industrial Engg./ Metallurgy & Materials Engineering
7	Chemistry (CH)	M.Sc./M.Phil in Chemistry
8	Mathematics (MA)	M.Sc./M.Phil in Mathematics/Statistics/ Computer Science/ Information Technology/ Computer Applications
9	Physics (PH)	M.Sc./M.Phil in Physics

2. ELIGIBILITY:

2.1 Ph.D (Engineering):

The eligibility criteria for admission to Ph.D Programme in Engineering is one of the following:

- (i) M.Tech/M.E/M.Sc.(Engg.)/equivalent in relevant discipline mentioned in Section-1 with at least 60% marks in aggregate or equivalent CGPA in both B.Tech and M.Tech levels from an Institute/University recognized by VSSUT.
- (ii) B.Tech/B.E/B.Sc.(Engg.)/equivalent in relevant discipline mentioned in Section-1with at least 65% marks or equivalent CGPA at B.Tech level from an Institute/University recognized by VSSUT.
- (iii) Faculty members employed permanent positions of VSSUT, Burla having M.Tech/M.E/M.Sc.(Engg.)/equivalent in relevant discipline mentioned in Section-1from an Institute/University recognized by VSSUT.
- (iv) Non-Teaching staff members employed on permanent positions of VSSUT, Burla for a period of at least 08 years out of which 03 years in existing post and having M.Tech/M.E/M.Sc. (Engg.)/equivalent in relevant discipline mentioned in Section-1with at least 60% marks in aggregate or equivalent CGPA in B.Tech's and M.Tech.

2.2 Ph.D (Science):

The eligibility criteria for admission to Ph.D Programme in Science is one of the following:

- (i) M.Phil in relevant discipline mentioned in Section-1with at least 60% marks or equivalent CGPA in aggregate both at M.Phil and M.Sc. level from an Institute or University recognized by VSSUT.
- (ii) M.Sc. in relevant discipline mentioned in Section-1with at least 65% marks or equivalent CGPA in aggregate at M.Sc. level from an Institute or University recognized by VSSUT.
- (iii) MCA with at least 65% marks or equivalent CGPA in aggregate at MCA level from an Institute or University recognized by VSSUT.
- (iv) Faculty members employed on permanent positions of VSSUT, Burla having M.Phil/M.Sc. in relevant discipline from an Institute or University recognized by VSSUT.
- (v) Non-Teaching Staff members, employed on permanent positions for a period of at least 08 years out of which 03 years in the existing post and having M.Phil/M.Sc in relevant discipline mentioned in Section-1with 60% marks in aggregate or equivalent CGPA in M.Sc. and M.Phil's level or with 65% marks in aggregate or equivalent CGPA in M.Sc. level from an Institute or University recognized by VSSUT.

- 2.3 In computing the percentage of marks in CGPA, all papers of a B.Tech, M.Tech, M.Sc./M.Phil or any other programme will be considered both in numerator and denominator
- 2.4 Universities/Institutes sometimes record their own conversion of marks to grade or vice-versa on their grade sheets. Under such circumstances VSSUT, Burla will accept only the original mode of evaluation ignoring the conversion.
- 2.5 Qualification in GATE or NET is not essential for admission to Ph.D Programme. Students applying for University or Government Scholarships/Fellowships shall need a valid NET (Lectureship or JRF) or GATE Score if required by the Government regulations. Moreover, a candidate having NET/GATE Scores/any other fellowship from Government Agencies shall be given preference in taking admission to Ph.D Programme.
- 2.6 The various categories of candidates (with or without financial support) mentioned below are eligible for apply for admission to Ph.D Programme provided they satisfy the eligibility criteria and qualification requirements as given in Section 2.1/2.2
 - (i) Category 1 : Full time students with University Fellowship/Assistantship (University Scholar)
 - (ii) Category 2: Full time students with External Fellowship (UGC/CSIR etc.)
 - (iii) Category 3: Full time students without Fellowship (Self financed/Self supported)
 - (iv) Category 4: VSSUT faculty members
 - (v) Category 5: VSSUT regular employees (Non-Teaching)
 - (vi) Category 6: Project Scholars (JRF/SRF/RA etc.) or Project Staff members.
 - (vii) Category 7: Sponsored students (Institute/ Research/ Organization/ Industry)
 - (viii) Category 8: Sponsored students from Burla and Vicinity.

The Ph.D students under categories 1, 2 & 6 have to take 10 hours of teaching load per week and assist in research and consultancy work.

- 2.7 Unlike other academic programmes, mere possession of required degrees and a superior academic record do not guarantee admission of a student to the Ph.D Programme. Apart from academic record, the Departmental Academic Committee (DAC) will take into consideration the research aptitude, ability to work in a team, subject interest, availability of supervisors, facilities in the department and the research focus while selecting candidates to the Ph.D Programme.
- 2.8 Research students (JRF, SRF, RA) of Government R&D Laboratories (DST, DAE, ISRO, DBT, CSIR, DOS, DRDO and similar research organizations) who are not entitled to award their own degrees engaged in full time research can be enrolled under category 2. They will need to spend at least one semester in VSSUT, Burla, while availing the fellowship from the parent organization.

- 2.9 Candidates employed as SRFs/JRFs/RAs or as full time Research Engineers/Officers in sponsored projects of the VSSUT, Burla may be admitted to the Ph.D Programme under category 6 as project scholars. They need to obtain permission of the Principal Investigator and Dean, SRIC & CE for admission. The Project should have tenure of at least 18 months beyond the date of admission of the candidate to the Ph.D programme. They also have to satisfy the minimum educational requirement and will undergo selection procedure like students of other categories. On termination of project, their status will be full time students without scholarship, unless offered another type of scholarship/fellowship/assistantship.
- **2.10** The University may admit persons who are employed in other organizations (Institute/research organizations/Industries) to Ph.D Programme of any discipline under category 8 as sponsored students. Such candidates should have the following:
 - (i) These candidates must have eligibility criteria as specified in Para 2.1/2.2
 - (ii) These candidates must have a total of minimum 2 years full time experience in the sponsoring organization. The candidate must produce the evidence of their work experience alongwith the application form
 - (iii) Intending sponsored candidates must submit their applications in the prescribed form (Form VSSUT/ACD/601) through their employers with suitable endorsement.
 - (iv) Intending sponsored candidates will undergo selection procedure like other students.
 - (v) The sponsored candidates are normally required to stay in the University till completion of assigned work and submission of the thesis. However, in special case, their residential requirement can be reduced to at least six months in order to complete all the course works assigned to them.
 - (vi) The selected sponsored students must submit the relieve order from their parent organization at the time of admission in order to fulfill minimum residential requirement.
- 2.11 Candidates employed in Institute/Research Organizations/ Government or public or private organizations/industries located at Burla and vicinity (within 15 Kms) may be admitted to Ph.D Programme under category 9 as sponsored students from Burla and vicinity. They need to fulfill all requirements of sponsored students (Category 8) except Para vi. They have to submit a permission letter from their parent organisation in place of relieve order at the time of admission to do the course work, appear examinations and other related activities as per the academic requirement of University. The candidate is required to give an undertaking in a non-judiciary stamp paper to complete all the academic requirements, which will be assigned to him/her by DSC.

3. SCHOLARSHIP:

Financial assistance shall also be provided to full time Ph.D scholars from the University Fund @Rs.15, 000/- per month in the first two years and Rs.16, 000/- per month in subsequent years as follows:

02 Civil Engineering 02 Electrical Engineering Electronics & Telecomm. Engineering 02 Mechanical Engineering 02 02 **Production Engineering** 02 Chemistry Mathematic 02 02 Physics

Total : 16

4. SELECTION CRITERIA:

4.1 All categories of candidates except the categories 2 and 4 need to undergo the process of selection through the Departmental Academic Committee (DAC) on the basis of overall academic career, written test and interview. The candidates who have qualified GATE/NET/Inspired fellowship (DST)/Teacher fellowship (UGC) and other fellowships from Govt. Agencies are exempted from the Written Test and they will be given preference in the selection of Ph.D admission. They are required to appear only interview before DAC to assess their research aptitude, ability to work in a team, subject interest and availability of supervisors and facilities in the Department before final selection. The Selection for the candidates in the categories 1, 3, 5, 6, 8 & 9, who have not qualified in GATE/NET/Inspired Fellowship (DST)/Teacher Fellowship (UGC) and other fellowships from Government agencies, shall have the following three components for General/SC/ST candidates as follows:

(i) Career Marks: 30 Marks

Qualifying Marks for General : 15 Marks (50%) Qualifying Marks for SC/ST : 12 Marks (40%

(ii) Written Test: 40 Marks

Out of which 20 nos. of multiple choice questions @ 1 mark each

and 10 nos. of questions of objective type @ 2 marks each.

Qualifying Marks: 16 Marks (40%) for General Qualifying Marks: 12 Marks (30%) for SC/ST

(iii) Interview: 30 Marks

Total Marks: 100 Marks

Qualifying Total Marks for General : 50 Marks (50%) Qualifying Total Marks for SC/ST : 40 Marks (40%)

The details of the Weightage of career marking is as follows:

Distribution of Career Marks

Ph.D (Engineering)

(i)	H.S.C/equivalent	: 05 Marks
	1 st Class	: 05 Marks
	2 nd Class	: 03 Marks
	3 rd Class	: 02 Marks

- (ii) +2 Sc./Diploma/equivalent : 05 Marks 1st Class : 05 Marks 2nd Class : 03 Marks 3rd Class : 02 Marks
- (iii) B.Tech/B.E/equivalent : 10 Marks 80% and above : 10 Marks 75% and less than 80% : 09 Marks 70% and less than 75% : 08 Marks 65% and less than 70% : 07 Marks 60% and less than 65% : 06 Marks
- (iv) M.Tech/M.E/equivalent : 10 Marks 80% and above : 10 Marks 75% and less than 80% : 09 Marks 70% and less than 75% : 08 Marks 65% and less than 70% : 07 Marks 60% and less than 65% : 06 Marks

Ph.D (Science)

- $\begin{array}{ccc} \text{(i)} & \text{H.S.C/equivalent} & :05 \text{ Marks} \\ & 1^{\text{st}} \text{ Class} & :05 \text{ Marks} \\ & 2^{\text{nd}} \text{ Class} & :03 \text{ Marks} \\ & 3^{\text{rd}} \text{ Class} & :02 \text{ Marks} \end{array}$
- $\begin{array}{ccc} \text{(ii)} & +2 \, \text{Sc./equivalent} & :05 \, \text{Marks} \\ & 1^{\text{st}} \, \text{Class} & :05 \, \text{Marks} \\ & 2^{\text{nd}} \, \text{Class} & :03 \, \text{Marks} \\ & 3^{\text{rd}} \, \text{Class} & :02 \, \text{Marks} \end{array}$
- (iii) B.Sc./equivalent : 05 Marks
 1st Class : 04 Marks
 2nd Class : 03 Marks
 Pass : 02 Marks
 Distinction : 01 Mark
- (iv) M.Sc./equivalent : 10 Marks
 Above 70% : 10 Marks
 Above 65% and less than 70%: 08 Marks
 Above 60% and less than 65%: 06 Marks
 (v) M.Phil/M.S/M.Tech/equivalent: 05 Marks

- **4.2** The candidates in the categories 2 and 4 are exempted from the Written Test. However, they need to undergo the process of selection by DAC through an interview only considering the research aptitude, ability to work in a team, subject interest, availability of supervisors, facilities in the Department and research focus.
- **4.3** Non-Teaching staff of the University seeking permission to join the Ph.D Programme under following terms and conditions:
 - i) A member of non-teaching staff seeking permission to join the research programme must hold a permanent post in the University for a period of at least 08 years service in the UCE/VSSUT and 03 years in the existing post.
 - ii) The employee must be engaged in research as a part of his normal duty so that his work output can qualify for the degree of Ph.D. Study towards Ph.D cannot be done on a part time basis outside the working hours of the University.
 - iii) The application for administrative permission to join a Ph.D programme by a member of Non-Teaching staff must be submitted to the Vice-Chancellor through the Head of the Department/Centre or Section in-charge, as the case may be where the candidate is employed. While submitting the application he/she must give an undertaking to the effect that he/she will abide by all rules and regulations.
 - iv) Administrative permission by the Vice-Chancellor for prosecuting Ph.D Programme does not constitute academic approval for admission.
 - v) The applications will be examined by the Departmental Academic Committee of the department where the candidate wants to be enrolled. The committee will interview the candidate to ascertain his suitability for the programme.
 - vi) Every application for admission under this category shall be examined by Research Programme Evaluation Committee (RPEC) taking into account whether the proposal for joining the programme for which permission is sought for arises out of genuine interest and ability, and whether the normal job assignment of the applicant sufficiently overlaps with the proposed research programme. The final approval shall be given by the Vice-Chancellor on behalf the Academic Council considering all aspects and merits of the case.
 - vii) The members of the non-teaching staff applying for Ph.D Programme must satisfy the minimum qualification requirement as mentioned in eligibility criteria and should undergo the process of selection through academic career, written test and interview.

5. Fees structure for Ph.D (Subject to change as per Govt. Orders)

(a) For Day Scholars

	Total	-	Rs.25,520/-
vii)	Horticulture Fees (Per annum)	-	Rs. 250/-
vi)	Students' Money (Per annum)	-	Rs. 1,770/-
v)	Internet fees (Per annum)	-	Rs. 2,000/-
iv)	Caution Money (Refundable)- One time	-	Rs. 2,500/-
iii)	University Development Fees (Per annum)	-	Rs. 6,000/-
ii)	Tuition & Examination Fees (Per annum)	-	Rs.10,000/-
i)	University Fees (One time)	-	Rs. 3,000/-

(b) For Boarders

i)	University Fees (One time)	-	Rs. 3,000/-
ii)	Tuition & Examination Fees (Per annum)	-	Rs.10,000/-
iii)	University Development Fees(Per annum)	-	Rs. 6,000/-
iv)	Caution Money (Refundable)-One time	-	Rs. 2,500/-
v)	Internet fees (Per annum)	-	Rs. 2,000/-
vi)	Students' Money (Per annum)	-	Rs. 1,770/-
vii)	Hostel Development Fees (Per annum)	-	Rs. 1,000/-
viii)	Seat Rent/Water & Electricity Charges Per annum)	-	Rs. 2,400/-
ix)	Horticulture Fees (Per annum)	-	Rs. 250/-
	Total	-	Rs.28,920/-

(c) For Internal Candidates(Employees of VSSUT, Burla)

i) Tuition & Examination Fees (Per annum) - Rs.10,000/-

6. Accommodation:

Accommodation may be provided by the University subject to availability.

REGISTRAR

Form: VSSUT/AC/601



VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA, BURLA

<u>For</u>	Office use only		
Serial Number of the Applicant:			
Recommendation of Department The candidate may be called to the candidate is not suitable department (Give reason). Does not satisfy others (specify)	for written test/interview for admission to Ph.D. pro		Paste here your recent passport size colour Photograph
Applica	ation for Admission to Ph	.D. Programme	
 Programme of study Department / Centre to which Applying for 	: Ph.D.(Engineerin	ng/Science)	
 Name of the candidate in full (Block Capital letters) Proposed Research Area (Broad area only) Category of studentship Full Time student with University Full time student with External Fe Full time student without Fellows VSSUT Faculty members VSSUT regular employees (Non-tea 	ellowship(UGC/CSIR etc.) hip	6. Project scholars/staff of 7. QIP Scholar 3. Sponsored student 9. Sponsored student from E	

- 1. Candidates applying for more than one department are required to submit photocopies of application form and certificates for each department applied for.
- 2. VSSUT regular employees must enclosed administrative permission from the institute.
- 3. Project staff and fellows must enclose administrative permission from Dean, (SRIC/CE); the project must have tenure of at least 18 months beyond the expected date of joining in the Ph.D. Programme
- 4. In case of candidates belonging to categories 8, Part-II of the application form filled up by the sponsoring authority must be attached.
- 5. In case of candidates belonging to category 9, Part-III of the application form filled up by the sponsoring authority must be attached. The candidate is also required to give an undertaking in a non-judicial stamp paper to complete all the academic requirements of the University related to the Ph.D Programme while working at his/her parent organization at the time of admission.

6.	Addres	ss for Comm	nunica	tion:					
	 Mob: _			Ema	 ail:				
7.	Date o			:	d	m r		y y y y]
8.	Sex	: Male / I	- emal					ried / Single	
10.	Class c	of category	: [] SC □ ST			eneral	· ·	
11.	Nation	ality:		12.	Moth	ner Tor	ngue:		
13.			•	lose attested copie of marks (CGPA)					sheets/grade cards uivalent)
1	Name of	Exams	Inst	itute/University		ar of ssing		ch/Subjects studied	Percentage of Marks/CGPA
14. 15.		te / 🗌 NET ence if any:		e: Subject:			_ Scor	re: Y	ear:
	Orgar	nization		Position			Dura	tion	Nature of job
16.	Previou	ıs Research v	vork a	nd publication, if ar	ıy: (Er	nclose d	copies c	of published or	unpublished work)
17.	Record	of past st	udy a	as a sponsored o	candi	date, o	or oth	er contractua	al obligation, if any:
belief.	. If admination fur	tted, I shall nished in th	abide is app	by rules and regula	ations be un	of the	Unive	rsity and Hall	t of my knowledge and allotted to me. If any he seat allotted to me
	DATE						-	Full signatur	re of the Applicant
Enclos	sures:	1)				3)	_		
		2)				4)	_		

PART - II (Category-8)

For Sponsored candidates only (To be filled up by the employer sponsoring the candidate)

1. Na	ime of the Employer	:	
2. Name, Designation and Address		:	
	Administrative Officer/HR anager		Phone: Fax: Fax:
3. Name of the employee seeking admission at VSSUT :		:	Liliali.
4. De:	signation (Regular)	:	
5. a)	First joined on (date)	:	
b)	Holding the present position since (date)	:	
c)	Nature of Job	:	
d)	Brief description of job Assign for the next Three years (Relevant assignment only)	ment :	(R & D, Design, Production, Marketing, Administrative, Other)
	asons for sponsoring the candidat Ph.D. Programme	e:	
	Full time study at VSSUT with (3 years for Ph.D.) Study minimum residential require	at VSS	SUT while working at our organization after satisfying the
organ recog studio resid	nization is sponsored for admis gnizes that his/her education a es at VSSUT, he/she will be o	ssion to and the n deput	employed as in this of the Ph.D. Programme of VSSUT, Burla. This organization is consequent least two year in a regular cadre. During his station from this organization 3 years/6 months to satisfy the the programme he/she will continue to be employed by our
Dat	re		Signature of the Competent Authority with seal

PART - III (Category-9)

For Sponsored candidates only (To be filled up by the employer sponsoring the candidate)

1.	Nan	ne of the Employer	:	
Name, Designation and Address of Administrative Officer/HR Manager		:	Phone: Fax:	
3.		ne of the employee seeking ission at VSSUT	:	Email:
4.	Desi	gnation (Regular)	:	
5. a	a)	First joined on (date)	:	
	b)	Holding the present position since (date)	:	
	c)	Nature of Job	:	
	d)	Brief description of job Assigns for the next Three years (Relevant assignment only)	ment :	(R & D, Design, Production, Marketing, Administrative, Other
6.		ons for sponsoring the candidat n.D. Programme	e:	
		Full time study at VSSUT with (3 years for Ph.D.)	deputati	on from the organization
		Study at VSSUT while working Of the University related to the		ganization after satisfying the academic requirement rogramme.
th re he	is or cogr e/she ourse	ganization is permitted for ad hizes his/her education and e shall be given a permission	dmission consect n letter , and o	employed asinto Ph.D Programme of VSSUT, Burla. This organisation uent at least two years in regular position. If selected from this organisation at the time of admission to do the her related activities as per the academic requirement cation.
Da	te			Signature of the Competent Authority with sea