



**MEMORANDUM OF UNDERSTANDING
BETWEEN
VEL TECH Dr. RR & Dr. SR TECHNICAL UNIVERSITY (INDIA) AND
SAARLAND UNIVERSITY (GERMANY)**

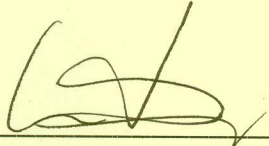
VEL TECH Dr. RR & Dr. SR Technical University (Vel Tech Rangarajan Dr. Sagunthala Institute of Science and Technology, University u/s 3 of UGC Act, 1956) and Saarland University, recognizing the value of academic exchange between the two institutions, issue the following agreement to promote a close co-operation and academic exchange between the two universities to the extent that finances permit.

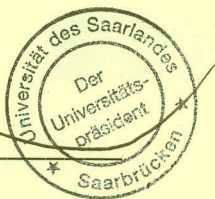
The agreement regards the following fields: Non-destructive testing (NDT) and its applications in engineering with respect to higher education and applied research.

1. Exchange of undergraduate and graduate students. Both institutions will nominate scholars and students to be associated with the host institution for study, research or internships. This will specifically include: Vel Tech University to send up to 8 undergraduate students per year for a 10 weeks internship, where the travel, living and subsistence cost will be covered by Vel Tech University or its respective students.
2. Exchange of faculty members and staff. This may include the following:
 - Train Vel Tech University staff with respect to education in NDT
 - Saarland University staff to run special lectures in NDT at Vel Tech University
3. Exchange of academic materials and academic publications in fields of interest of both universities
4. Promotion of joint research projects, conferences, seminars and symposia. This does specifically include the IDAD symposium organized by Vel Tech University to which Saarland University will either send invited speakers of its own or propose speakers from other reputable institutions.
5. The details of co-operation in the single fields will be fixed in special arrangements.

RR

6. This agreement will become effective initially for 5 years upon the date of signature by the representatives of the two universities. The agreement may be adjusted or extended with the written consent of both Parties. The agreement may be terminated by either of the Parties upon giving six months prior written notice.


Saarland University
President
Univ.-Prof. Dr. Volker Linneweber
Date February 15, 2016




VEL TECH University
Founder President
Prof. R. Rangarajan
Date 24/2/2016



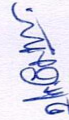


Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. in 3 of UGC Act, 1956)

Saarland University, Germany

Name of the Research Institute/University/ Organization	Country	Duration of the Agreement	Academic Year	Date of Signing	Date of Expiry	Purpose/Activities
Saarland University	Germany	5 Years	2015-16	24.02.2016	23.02.2021	Exchange of Staffs, Students (UG & PG), Academic Materials and Publications, Joint R&D projects

Actual Activities with Saarland University, Germany	
A.Y. 2015-16	Student Mobility (Outgoing - Project Work): 6
A.Y. 2016-17	Student Mobility (Outgoing - Research Internship): 3 Faculty Mobility (Incoming - Short Courses) - 1
A.Y. 2017-18	Faculty Mobility (Incoming - Short Courses) - 1


MoU Coordinator




Dean - International Relations
Dr. P. Suresh
Dean - International Relations

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. in 3 of UGC Act, 1956)



Prof. Dr.-Ing. Christian Boller
LZfPQ – Lehrstuhl für Zerstörungsprüfung und Qualitätssicherung

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Certificate

This is to certify that

Mr. Mohit THAKUR,
Reg. No. VTU 3479, Department of Mechanical Engineering,
VelTech Dr. RR & Dr. SR Technical University, Chennai / India

has successfully achieved an 10 weeks internship in nondestructive testing at Saarland University Chair of Non-Destructive Testing and Quality Assurance (LZfPQ) in Saarbrücken / Germany during the period of February 15th till April 22nd, 2016.

Mr. Thakur participated in a two weeks refresher course in fundamentals of Material Science and Nondestructive Testing (NDT) before he worked on his project on the nondestructive characterization of fatigued steel samples using magnetic technique.
His project report is entitled:

Characterization of Fatigued Steel States with Metal Magnetic Memory Method

Mr. Thakur quickly grasped the basics required which allowed him to operate the semi-automated, commercial MMM-system allocated to him after some short guidance and to perform the measurements of the magnetic leakage field around fatigued steel samples with sufficient accuracy. He visualized the change of the tangential and normal leakage field components along the gauge length of the samples fatigued to different levels. With his results he contributed to the development of magnetic techniques for the early detection of fatigue damages. We have been very much satisfied with his performance as well as with his social competence in all regards. Collaboration with him has been considered to be very productive and most enjoyable.

We do wish Mr. Thakur the best of success for his future.

Dr.-Ing. Eckhardt Schneider
Senior Scientist
Saarbrücken, April 21st, 2016



Certificate

This is to certify that

Mr. A Mohamed Adil Sha,
Reg. No. VTU 3034, Department of Mechanical Engineering,
VelTech Dr. RR & Dr. SR Technical University, Chennai / India

has successfully achieved an 10 weeks internship in nondestructive testing at Saarland University Chair of Non-Destructive Testing and Quality Assurance (LZfPQ) in Saarbrücken / Germany during the period of February 15th till April 22nd, 2016.

Mr. A Mohamed Adil Sha participated in a two weeks refresher course in fundamentals of Material Science and Nondestructive Testing (NDT) before he worked on his project on the nondestructive characterization of fatigued steel samples using magnetic technique. His project report is entitled:

Characterization of Fatigued Steel States with Metal Magnetic Memory Method

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We do wish Mr. A Mohamed Adil Sha the best of success for his future.

Dr.-Ing. Eckhardt Schneider
Senior Scientist
Saarbrücken, April 21st, 2016

Universität des Saarlandes
Postfach 15 11 50 | 66041 Saarbrücken



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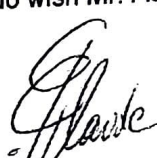
Mr. ASHIRWAD,
Reg. No. VTU 3480, Department of Mechanical Engineering,
VelTech Dr. RR & Dr. SR Technical University, Chennai / India

has successfully achieved an 10 weeks internship in nondestructive testing at Saarland University Chair of Non-Destructive Testing and Quality Assurance (LZfPQ) in Saarbrücken / Germany during the period of February 15th till April 22nd, 2016.

Mr. Ashirwad participated in a two weeks refresher course in fundamentals of Material Science and Nondestructive Testing (NDT) before he worked on his project on the nondestructive characterization of fatigued steel samples using ultrasonic technique.
His project report is entitled:

Ultrasonic Characterization of Steel Properties at Different Fatigue Stages

Mr. Ashirwad quickly grasped the basics required which allowed him to operate the ultrasonic transmitter/receiver unit and the four channel oscilloscope allocated to him after some short guidance and to perform the measurements of the ultrasonic times-of-flight with sufficient accuracy. Using the thickness measurements he calculated the ultrasonic velocities at different positions along the gauge length of steel samples fatigued to different levels. With his results he contributed to the development of ultrasonic techniques for the early detection of fatigue damages. We have been very much satisfied with his performance as well as with his social competence in all regards. Collaboration with him has been considered to be very productive and most enjoyable.
We do wish Mr. Ashirwad the best of success for his future.


Dr.-Ing. Eckhardt Schneider
Senior Scientist
Saarbrücken, April 21st, 2016

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This is to certify that

Mr. KRISHNATEJAS. S,
Reg. No. VTU 3200, Department of Mechanical Engineering,
VelTech Dr. RR & Dr. SR Technical University, Chennai / India

has successfully achieved an 10 weeks internship in nondestructive testing at Saarland University Chair of Non-Destructive Testing and Quality Assurance (LZfPQ) in Saarbrücken / Germany during the period of February 15th till April 22nd, 2016.

Mr. Krishnatejas participated in a two weeks refresher course in fundamentals of Material Science and Nondestructive Testing (NDT) before he worked on his project on the nondestructive characterization of fatigued steel samples using thermography technique. His project report is entitled:

Characterization of the fatigue behavior of S235 structural steel by means of NDT techniques

Mr. Krishnatejas quickly grasped the basics required which allowed him to operate the servo hydraulic testing system and the thermocamera allocated to him after some short guidance and to adapt a cooling system to the experimental set-up. He fatigued steel specimens to different stages and characterized the state of the material by evaluating the change in temperature. We have been very much satisfied with his performance as well as with his social competence in all regards. Collaboration with him has been considered to be very productive and most enjoyable.

We do wish Mr. Krishnatejas the best of success for his future.

Dr.-Ing. Peter Starke
Senior Scientist
Saarbrücken, April 21st, 2016



Prof. Dr.-Ing. Christian Boller
LZfPQ – Lehrstuhl für Zerstörungsfreie Prüfung und Qualitätssicherung

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Certificate

This is to certify that

Mr. S. Kalyan,
Reg. No. VTU 3161, Department of Mechanical Engineering,
VelTech Dr. RR & Dr. SR Technical University, Chennai / India

has successfully achieved an 10 weeks internship in nondestructive testing at Saarland University Chair of Non-Destructive Testing and Quality Assurance (LZfPQ) in Saarbrücken / Germany during the period of February 15th till April 22nd, 2016.

Mr. Kalyan participated in a two weeks refresher course in fundamentals of Material Science and Nondestructive Testing (NDT) before he worked on his project on the nondestructive characterization of fatigued steel samples using thermography technique.
His project report is entitled:

Characterization of the fatigue behavior of S235 structural steel by means of NDT techniques

Mr. Kalyan quickly grasped the basics required which allowed him to operate the servo-hydraulic testing system and the thermocamera allocated to him after some short guidance and to adapt a cooling system to the experimental set-up. He fatigued steel specimens to different stages and characterized the state of the material by evaluating the change in temperature. We have been very much satisfied with his performance as well as with his social competence in all regards. Collaboration with him has been considered to be very productive and most enjoyable.

We do wish Mr. Kalyan the best of success for his future.

Dr.-Ing. Peter Starke
Senior Scientist
Saarbrücken, April 21st, 2016

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Certificate

This is to certify that

Mr. Abhishek SINGH,
Reg. No. VTU 3495, Department of Mechanical Engineering,
VelTech Dr. RR & Dr. SR Technical University, Chennai / India

has successfully achieved an 10 weeks internship in nondestructive testing at Saarland University Chair of Non-Destructive Testing and Quality Assurance (LZfPQ) in Saarbrücken / Germany during the period of February 15th till April 22nd, 2016.

Mr. Singh participated in a two weeks refresher course in fundamentals of Material Science and Nondestructive Testing (NDT) before he worked on his project on the nondestructive characterization of fatigued steel samples using ultrasonic technique.
His project report is entitled:

Ultrasonic Characterization of Steel Properties at Different Fatigue Stages

Mr. Singh quickly grasped the basics required which allowed him to operate the ultrasonic transmitter/receiver unit and the four channel oscilloscope allocated to him after some short guidance and to perform the measurements of the ultrasonic times-of-flight with sufficient accuracy. Using the thickness measurements he calculated the ultrasonic velocities at different positions along the gauge length of steel samples fatigued to different levels. With his results he contributed to the development of ultrasonic techniques for the early detection of fatigue damages. We have been very much satisfied with his performance as well as with his social competence in all regards. Collaboration with him has been considered to be very productive and most enjoyable.

We do wish Mr. Singh the best of success for his future.

Dr.-Ing. Eckhardt Schneider
Senior Scientist
Saarbrücken, April 21st, 2016



Certificate

This is to certify that

Mr. Vijay SHANMUGAM,
Reg. No. 13UEME0378, Department of Mechanical Engineering,
VelTech Dr. RR & Dr. SR Technical University, Chennai / India

has successfully achieved an 10 weeks internship in nondestructive testing at Saarland University Chair of Non-Destructive Testing and Quality Assurance (LZfPQ) in Saarbrücken / Germany during the period of February 15th till April 22nd, 2017.

Mr. SHANMUGAM participated in a three weeks refresher course in fundamentals of Material Science and Nondestructive Testing (NDT) before he worked on his project dealing with the nondestructive characterization of structural steels by means of electromagnetic measurement techniques.

His project report is entitled:

Determination of the relationship between yield strength and electromagnetic parameters for different structural steels

Mr. SHANMUGAM quickly grasped the basics required which allowed him to operate the MikroMach System and the analysis software to perform measurements on different I beams made of low alloyed and low carbon structural steels. MikroMach by Fraunhofer IZFP is a (German) acronym for Micromagnetic Material Characterization and allows to characterize the properties of ferromagnetic materials by evaluating magnetic effects occurring on a microscopic level.

The MikroMach system combines the four following measurement techniques:

- Harmonic Analysis (HA) of the magnetic tangential field strength
- Barkhausen Noise (BN) signal analysis
- Incremental Permeability (IP) analysis
- Multi-frequency Eddy Current (EC) analysis

Mr. SHANMUGAM's work was mostly focused on the investigation of the relationship between mechanical properties (yield and tensile strength, hardness) and parameters derived from micromagnetic measurements based on Barkhausen Noise as well as Harmonic Analysis.



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We have been very much satisfied with Mr. SHANMUGAM's performance as well as with his social competence in all regards. Collaboration with him has been considered to be very productive and most enjoyable.

We do wish Mr. SHANMUGAM the best of success for his future.

A handwritten signature in blue ink, which appears to read 'Christian Boller'.

Professor Dr.-Ing. Christian Boller
Chairholder
Saarbrücken, April 26th, 2017

Certificate

This is to certify that

Mr. Indrajeet Bajarang JADHAV,
Reg. No. 13UEME0502, Department of Mechanical Engineering,
VelTech Dr. RR & Dr. SR Technical University, Chennai / India

has successfully achieved an 10 weeks internship in nondestructive testing at Saarland University Chair of Non-Destructive Testing and Quality Assurance (LZfPQ) in Saarbrücken / Germany during the period of February 15th till April 22nd, 2017.

Mr. JADHAV participated in a three weeks refresher course in fundamentals of Material Science and Nondestructive Testing (NDT) before he worked on his project dealing with the nondestructive characterization of structural steels by means of electromagnetic measurement techniques.

His project report is entitled:

Statistical influence on the measurement of electromagnetic parameters for structural steels

Mr. JADHAV quickly grasped the basics required which allowed him to operate the MikroMach System and the analysis software to perform measurements on different I beams made of low alloyed and low carbon structural steels. MikroMach by Fraunhofer IZFP is a (German) acronym for Micromagnetic Material Characterization and allows to characterize the properties of ferromagnetic materials by evaluating magnetic effects occurring on a microscopic level.

The MikroMach system combines the four following measurement techniques:

- Harmonic Analysis (HA) of the magnetic tangential field strength
- Barkhausen Noise (BN) signal analysis
- Incremental Permeability (IP) analysis
- Multi-frequency Eddy Current (EC) analysis

Mr. JADHAV's work was mostly focused on the analysis of Barkhausen Noise as well as Harmonic Analysis and out of these derived characteristic parameters and the therefore required statistic of data records.



26.04.2017 | Seite 2

We have been very much satisfied with Mr. JADHAV's performance as well as with his social competence in all regards. Collaboration with him has been considered to be very productive and most enjoyable.

We do wish Mr. JADHAV the best of success for his future.

A handwritten signature in blue ink that reads "Chr. Boller".

Professor Dr.-Ing. Christian Boller
Chairholder
Saarbrücken, April 26th, 2017



Certificate

This is to certify that

Mr. Vishnu Chaitanya UPPALA,
Reg. No. 13UEME0385, Department of Mechanical Engineering,
VelTech Dr. RR & Dr. SR Technical University, Chennai / India

has successfully achieved an 10 weeks internship in nondestructive testing at Saarland University Chair of Non-Destructive Testing and Quality Assurance (LZfPQ) in Saarbrücken / Germany during the period of February 15th till April 22nd, 2017.

Mr. UPPALA participated in a three weeks refresher course in fundamentals of Material Science and Nondestructive Testing (NDT) before he worked on his project dealing with the nondestructive characterization of structural steels by means of electromagnetic measurement techniques.

His project report is entitled:

Influence parameters on electromagnetic measurements on structural steels

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- Incremental Permeability (IP) analysis
- Multi-frequency Eddy Current (EC) analysis

Mr. UPPALA's work was mostly focused on the investigation of influence parameters on electromagnetic measurements based on Barkhausen Noise as well as Harmonic Analysis. Among others electronic noise as well as temperature influences were investigated to improve the reproducibility of the recorded data.



26.04.2017 | Seite 2

We have been very much satisfied with Mr. UPPALA's performance as well as with his social competence in all regards. Collaboration with him has been considered to be very productive and most enjoyable.

We do wish Mr. UPPALA the best of success for his future.

A handwritten signature in dark ink, which appears to read 'Ch. Boller'.

Professor Dr.-Ing. Christian Boller
Chairholder
Saarbrücken, April 26th, 2017



Certificate

This is to certify that

Mr. Indrajeet Bajarang JADHAV,
Reg. No. 13UEME0502, Department of Mechanical Engineering,
VelTech Dr. RR & Dr. SR Technical University, Chennai / India

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His project report is entitled:

Statistical influence on the measurement of electromagnetic parameters for structural steels

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We do wish Mr. JADHAV the best of success for his future.

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Professor Dr.-Ing. Christian Boller
Chairholder
Saarbrücken, April 26th, 2017



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VelTech Dr. RR & Dr. SR Technical University, Chennai / India

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We have been very much satisfied with Mr. UPPALA's performance as well as with his social competence in all regards. Collaboration with him has been considered to be very productive and most enjoyable.

We do wish Mr. UPPALA the best of success for his future.

A handwritten signature in dark ink, which appears to read 'Mr. Boller'. The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Professor Dr.-Ing. Christian Boller
Chairholder
Saarbrücken, April 26th, 2017



Veltech Dr.RR & Dr.SR University[®]
(Estd. u/s 3 of UGC Act, 1956)

School of Mechanical and Construction
Department of Mechanical Engineering

Specialized one credit course on
“Non Destructive Testing”
(1157ME908)

by

Prof. Dr. Eckhardt Schneider
Saarland University, Germany



**UNIVERSITÄT
DES
SAARLANDES**

Held on

Date: March 6 to 17, 2017

Curriculum vitae

F. Eckhard SCHNEIDER

Dr.-Ing.



Dr.-Ing. Eckhardt Schneider

studied Material Sciences at the Saarland University, Saarbrücken and joined the Fraunhofer-Institute for Non-Destructive Testing IZFP, Saarbrücken in 1978. He received a PhD degree in Mechanical Engineering at the RWTH Aachen University. His major R & D activities concern the development of ultrasonic and (micro-) magnetic techniques to characterize material states and properties, to evaluate properties of components and to monitor their changes during the manufacturing process and during their lifetime.

He was Guest Researcher at the University of Houston, Texas, USA in 1984 / 85 working on the nondestructive characterization of Al Alloys.

Dr. E. Schneider was Guest Professor of the University Arts et Métier Paris Tech, Metz, France from 2007 till 2009.

His work was awarded by the Joseph-von-Fraunhofer Preis (1989), the Berthold Preis of the German Society for Non-Destructive Testing DGZfP (1992) and the ASME Founders Award of Non-Destructive Evaluation, Engineering Division (2005).

He retired from Fraunhofer Institute for Non-Destructive Testing in 2011 and joined the Saarland University Chair of Non-Destructive Testing and Quality Assurance LZfPQ held by Professor Dr.-Ing. Christian Boller.

Dr. Schneider serves as scientific consultant to the chair members.

Non-Destructive Testing (NDT) Course
to be held at VelTech Dr. RR & Dr.SR University
by Dr.-Ing. Eckhardt Schneider

It is intended to give the students a good overview of the most widely used ultrasonic, eddy current and (micro-) magnetic techniques to detect defects, to characterize the material structure and to evaluate properties of components. The basics are repeated as far as they are needed for the understanding. The course material concerning the basics is to a large extent identical with the basic course of the *Master of NDT Course* of the Dresden International University DIU.

The basics will be explained by presentations. The case studies are much more like a guided discussion with the students. They will be invited to develop suggestions to solve specific ndt enquiries, to think about the most suitable ndt method for the particular case and to discuss the possibilities and limitations of that technique with regard to its applicability and cost efficiency.

It is recommended to have a blackboard or similar medium available besides of the beamer in order to explain this or that by additional hand writing and drawing. The course is divided into 20 units. One unit will have 1.5 hours duration; two units will be given per day. The content of each course is shortly characterized by the following key words. This outline is a suggestion, modifications can be discussed.

Unit 1:

Contribution of NDT to the Quality Assurances Concepts of Automotive and Supplier Industry.

Quality measures of the major steps along the automobile production line are presented and the possible ndt techniques to characterize the quality are mentioned. Why this or that ndt technique is suitable for the particular quality control or for the evaluation of the particular quality measure is subject of the following courses.

Sheets for the automotive body; casted engine blocks, gear parts, joining processes, screws and bolts, wheels, hardening process, surface treatment

Unit 2

Ultrasound Basics 1

Huygens principle, interferences, reflection, refraction, scattering, ultrasonic wave types, propagation velocity, phase velocity, group velocity, Snells law, reflection, transmission, mode conversion, attenuation, absorption, scattering, time-of-flight measurement principles

Unit 3

Evaluation of Case Depth using Ultrasonic Backscattering – A Case Study

Repetition of basics, material structure, Snells law, mode conversion, scattering, application of the basics to evaluate case depth, set-ups, measuring procedure, limits of application

Unit 4

Ultrasound Basics 2

Piezoelectric effect, piezoelectric transducers, composite transducers, pulse, frequency, spectrum, acoustic field, material testing principles, wedged transducer, special applications

Unit 5

On-Line Evaluation of Clamp Force of Screws during Fastening Process – A Case Study

Repetition of basics, piezoelectric transducer, sound field, time-of-flight measurement, one-dimensional stress state, the acousto-elastic effect, set-ups, measuring procedure, limits of application

Unit 6

Ultrasound Basics 3

Functional principle of electromagnetic ultrasonic transducer (EMAT), magnetic field, induction, Lorentz force, design concepts for longitudinal, shear, guided wave, laser beam ultrasonic transducer, phased array, sampling phased array, synthetic aperture focusing technique (SAFT), acoustic microscope

Unit 7

Material Science Basics

Fcc, bcc single crystal, elastic properties, one-, two-, three dimensional lattice defects, ferromagnetism, magnetic domains, domain walls, anisotropy, linear dimensions, sizes, interactions

Unit 8

Detection and Sizing of Flaws- A Case Study

Repetition of basics; selected enquiries from automotive, rail road, aeroplane industry are described, possible ndt solutions discussed, recommendations formulated

Unit 9

Characterization of Rolling Texture of Sheets and Plates – A Case Study

Repetition of basics, elastic anisotropy of single crystal, rolling texture of steel and Al products, EMAT, time-of-flight measurement, measuring principle, set-up, application, limitations.

Unit 10

Evaluation of Stress States of Components using Ultrasonic Techniques – A Case Study

Repetition of basics, Principles of x-ray-, hole drilling, ring-core, micro-magnetic technique to evaluate stress, principle of ultrasonic stress analysis, acousto-elastic effect, time-of-flight measurement, applications, limitations

Unit 11

Questions and Answers

concerning the ultrasonic techniques to detect defects, to characterize material structure and to evaluate properties of components.

Repetition of selected material presented and discussed in the units before

Unit 12

Micro-Magnetic Basics

Material in a magnetic field; para-, dia-, ferromagnetism, magnetic field, domains, domain walls, wall movement, magnetic hysteresis, conductivity, permeability, Barkhausen noise, measuring principles, design concepts of sensors and set-ups, applications, limitations

Unit 13

Eddy Current Basics1

Electromagnetic induction, eddy current flow, skin effect, coil signal, phasor diagram, coupling, fill factor, frequency influence, impedance normalization, impedance diagram, coils and formation of signal

Unit 14

Eddy Current Basics 2

Multi-frequency method, set-ups, special applications of defect detection and material state characterization

Unit 15

Non-Destructive Testing of Surface Hardened Parts – a Case Study 1

Repetition of micro-magnetic and eddy current basics, detection of hardening surface, subsurface cracks and surface anomalies,

Unit 16

Non-Destructive Testing of Surface Hardened Parts – a Case Study 2

Evaluation of hardness, of hardening depth, of surface properties

Unit 17

Non-Destructive Testing 1

Working groups develop suggestions to solve the ndt enquiries describe by the industrial partners of VelTech

Unit 18

Non-Destructive Testing 1

Working groups develop suggestions to solve the ndt enquiries describe by the industrial partners of VelTech

Units 19 and 20

Summarizing

Selected repetition of the course material, questions and answers, discussion of selected applications

Veltech Dr.RR & Dr.SR University

(Estd. u/s 3 of UGC Act, 1956)

Department of Mechanical Engineering

Ref : VTU/DoME/ STC/ 2016 – 17

Date: 15.2.2017

Submitted for Approval

Sir,

Professor Eckhardt Schneider Professor & Chair for Non Destructive Testing and Quality Assurance, Saarland University, Germany will be visiting our University from March 6th to March 17th 2017, to conduct a short term course (30 hours) on "Non Destructive Testing" for third year Mechanical Engineering Students. He will be giving lectures from 9 a.m. to 12:30 p.m. for 10 days. The following students have been shortlisted to attend the mentioned program.

	VtU	Name	Section
1	5291	Bandi Devandra Reddy	A
2	4839	K Saravana	C
3	5451	K Ram Vineeth	C
4	5801	V Ganesh Kumar Reddy	A
5	5350	M Rajendra	D
6	5242	KS Krishna Chaitanya	C
7	5364	D Sravan Kumar	B
8	5553	Anirudh Satya D	B
9	5486	Vijendra Mandaraya	B
10	5637	Amara Shiva Danush	A
11	5025	M Bhanu Teja	D
12	5376	K Srinivas	C
13	5777	Akhil Nath Kunwar	A
14	5804	G Vinod Kumar Yadav	C
15	4982	P Sai Krishna Teja	E

	VtU	Name	Section
16	5354	Harshit Pandey	B
17	5515	P Sri Keshava Ram	D
18	5297	Manish Kumar	E
19	5272	Kuchu Sisindri	C
20	5748	N Chenchu Hareesh	D
21	5241	Md Fuhal Sanil MV	D
22	4904	J Haribabu	C
23	4752	Y Nagarjuna	D
24	5298	T Chaitanya Kalyan	C
25	5623	O Raja Mohan Reddy	D
26	5221	A Sai Pavan	A
27	5524	G Ramprasad	D
28	5076	Kande Manjunath	C
29	5707	T Manikanta	C
30	5127	Jathin R	C

The above students were selected based on their academic performance and marks secured in the NDT objective test. The short term course syllabus is enclosed herewith.

Approval is requested for

- 1) To Conduct the short term course on "Non Destructive Testing" for the III Year Mechanical as above
- 2) To provide the Course Completion Certificates to the successful students
- 3) To provide on duty attendance after the course completion.

HoD - Mechanical

16/2/17

20/2



To
Mr. Sri Hemsha
To file
21/2

400 feet Outer Ring Road, Avadi,
Chennai-600 062, Tamil Nadu, India.
Landline : +044 2684 0332 / 2684 0262
Toll Free : 1800 3070 6949
Email : vtu@veltechuniv.edu.in
Website : www.veltechuniv.edu.in

Stu_Id	Stu_Name	Stu_Branch	Course Code	Course Name	Stu_Subject	Stu_Registration	Stu_Grade_Points	Stu_Grade
VTU6103	ARAVIND T	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0025	7	C
VTU6107	VADEM PUNEETH	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0223	9	A
VTU6117	VENATI SAI CHARAN	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0256	7	C
VTU6121	ARJUN RAJ	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0029	8	B
VTU6231	NAVIN KUMAR	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0252	6	D
VTU6268	K J YATISH	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0245	8	B
VTU6275	BHASKARLA PRABHU PRANEETH	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0041	7	C
VTU6293	ANKAM VINODKUMAR REDDY	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0022	8	B
VTU6307	THAVANAM NARASIMHA REDDY	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0217	6	D
VTU5902	KARUMUDI VENKATA RAVI TEJA	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0109	8	B
VTU5921	SRIHARI.A	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0204	9	A
VTU5936	KUVVARAPU HRITHIK TEJA	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0117	8	B
VTU5940	NARRALA HOMAKIRAN	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0136	6	D
VTU5993	MUDUMANCHI KARTEEK	MECHANICAL	1152ME115	Non Destructive Testing	NE	15UEME0133	0	NE
VTU6043	DESAM ASHOK REDDY	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0059	7	C
VTU6047	PAVAN SAI PAGADALA	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0148	7	C
VTU6079	KALIKI SAITEJA	MECHANICAL	1152ME115	Non Destructive Testing	NE	15UEME0102	0	NE
VtU6495	ANAND VERMA	MECHANICAL	1152ME115	Non Destructive Testing	RA	15UEME0021	0	AB
VtU6511	PANNERSELVAM PREM KUMAR	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0254	6	D
VtU6512	SIKHA NAVA TEJ	MECHANICAL	1152ME115	Non Destructive Testing	NE	15UEME0200	0	NE
VtU6595	TIRUNAMALA PHANI MOHAN	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0219	9	A
VtU6630	TUSHAR DESHMOUKH	MECHANICAL	1152ME115	Non Destructive Testing	NE	15UEME0221	0	NE
VTU6638	BALU SRIRAMULA REDDY	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0038	7	C
VtU6655	AMUJURI MALLIKARJUNA RAO	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0020	8	B
VtU6663	GUDURI RAKESH KRANTHI KUMAR	MECHANICAL	1152ME115	Non Destructive Testing	RA	15UEME0081	0	AB
VtU6688	WOORIBINDI SIVA SAI KUMAR	MECHANICAL	1152ME115	Non Destructive Testing	NE	15UEME0243	0	NE
VtU8449	P.MAHESH ANAND	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0602	9	A
VTU6335	UMMADISETTY SAI KALYAN	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0222	9	A
VTU6384	J PURUSHOTHAM	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0157	6	D
VTU6433	PADI SURENDRA BABU	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0141	7	C
VTU6435	S.VENKATESH	MECHANICAL	1152ME115	Non Destructive Testing	Pass	15UEME0229	8	B

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Veltech Dr.RR & Dr.SR University

(Estd. u/s 3 of UGC Act, 1956)

S.Sivaperumal
Director International Relations

Date: 23.03.2017

Our Ref. No: 2017/VF5/5

Your Ref. No:

DINT/03-17/05

Submitted for the Approval:

Name of the Professor: Prof. Eckhardt Schneider

University & Country: Saarland University, Germany

Course Title: Non Destructive Testing

Department: Mechanical Engineering

Students: Mechanical III Yr- 30 Students

Training Program date: March 6 to 17, 2017

Sl.No	Description	Amount in INR
1	Course Honorarium (Rs.3000 * 30Hrs) (Net Amount & Tax Free)	90,000
	Total	90,000

(Rupees Ninety thousand only)

In this regard, I request your approval for transferring the equivalent Euros (EUR) to the Following Account,

Name: Schneider Eckhardt and Monika

Account No (IBAN): DE52/5919/0000/0075/2130/18

Bank Name: Bank-1-SAAR

Code (BiC): SABADE55

Thank You,

S.Sivaperumal

14/02/17



029

400 feet Outer Ring Road, Avadi,
Chennai-600 062, Tamil Nadu, India.

Mobile : +91 96000 40255

Email : dint@veltechuniv.edu.in

Website : www.veltechuniv.edu.in



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Mechanical & Construction
Department of Mechanical Engineering

Specialized one credit course on
“Metallic Materials”
(1157ME912)

by

Prof. Dr. Ing. Peter Starke
Saarland University, Germany



**SAARLAND
UNIVERSITY**

Held on

Date: August 28 to September 5, 2017

Dr.-Ing. Peter Starke**Chair of Non-Destructive Testing
& Quality Assurance (LZFPQ)
Saarland University**

Campus Dudweiler
Am Markt/Zeile 4
D-66125 Saarbrücken
Germany



Phone: +49-681-302-64187
Fax: +49-681-302-4859
Email: peter.starke@uni-saarland.de
Website: www.uni-saarland.de/en/lehrstuhl/boller/home.html

Curriculum Vitae

Born on 04th February 1977, Ludwigshafen/Rhein, Germany
Married

Work Experience

- since 2013** Senior Research Associate and Chief Engineer, Chair of Non-Destructive Testing & Quality Assurance, Saarland University
- since 2006** Teaching activities at TU Kaiserslautern University, Dresden International University and Saarland University
- 2007-2013** Senior Scientific Assistant, Head of Working Group “Fatigue life calculation”, Chair of Materials Science and Engineering, TU Kaiserslautern University
- 2002-2007** Scientific Assistant, Chair of Materials Science and Engineering, TU Kaiserslautern University; Activity Emphasis: Cyclic Deformation Behaviour

Academic Education

- 2007** PhD (Dr.-Ing.), TU Kaiserslautern University
- 2002** Diploma (Dipl.-Ing.), TU Kaiserslautern University
- 1997-2002** Study of Mechanical Engineering, Design and Materials Science, TU Kaiserslautern University

Main Research Activities

- Fatigue behaviour: LCF to VHCF
- Fatigue life calculation
- Measurement techniques and testing devices
- Non-Destructive Testing
- Structure-property relationships of metallic materials

Committee Work

- DIN commission “Fatigue”

Reviewer Activities

- International Journal of Fatigue
- International Journal of Materials Research
- Materials Science and Technology
- MP-Materials testing
- Materials & Design
- Scientific Reports, Nature Publishing Group

Publications*

1. P. Starke, F. Walther, D. Eifler, PHYBAL-A new method for lifetime prediction based on strain, temperature and electrical measurements, International Journal of Fatigue 28,9 (2006) 1028-1036.
2. P. Starke, F. Walther, D. Eifler, Fatigue assessment and fatigue life calculation of quenched and tempered SAE 4140 steel based on stress-strain hysteresis, temperature and electrical resistance measurements, Fatigue & Fracture of Engineering Materials & Structures 30 (2007) 1044-1051.
3. P. Starke, F. Walther, D. Eifler, New fatigue life calculation method for quenched and tempered steel SAE 4140, Material Science and Engineering A 523,1-2 (2009) 246-252.
4. H. Kramer, P. Starke, M. Klein, D. Eifler, Cyclic Hardness Test PHYBAL_{CHT} - short-time procedure to evaluate cyclic properties of metallic materials, International Journal of Fatigue 63 (2014) 78–84.
5. H. Germann, P. Starke, D. Eifler, Physically Based Fatigue Assessment of the Nodular Cast Iron ASTM 80-55-06 (EN-GJS-600) at Different Testing Frequencies, Advanced Engineering Materials 14,10 (2012) 859-866.
6. H. Knobbe, P. Starke, S. Hereñú, H.-J. Christ, D. Eifler, Cyclic deformation behaviour, microstructural evolution and fatigue life of duplex steel AISI 329 LN, Int. J. Fat. 80 (2015) 81-89.
7. P. Starke, D. Eifler, C. Boller, Fatigue assessment of metallic materials beyond strain measurement, Int. J. Fat. 82 (2016) 274-279.
8. P. Starke, H. Wu, C. Boller, Short time evaluation of metallic materials' fatigue potential combining destructive and non-destructive testing methods, NDT in Aerospace 2016, NDT.net Vol. 4 (2016) 1-8.
9. M. Klein, P. Starke, D.S. Nowak, C. Boller, F. Walther, Separation of surface, subsurface and volume fatigue damage effects in AISI 348 steel for power plant applications, MP Materials Testing 58,7-8 (2016) 601-607.
10. P. Starke, H. Wu, C. Boller, Advanced evaluation of fatigue phenomena using non-destructive testing methods, Materials Science Forum, Vol. 879 (2017) 1841-1846.

*Complete list: https://www.researchgate.net/profile/Peter_Starke2/publications

Name of the Professor: Prof. Dr.- Ing. Peter Starke

University & Country : Saarland University, Germany

Course Title : Metallic Materials

Department : Mechanical Engineering

Students : 2016-2020, 30 Students

Training Program date : 28th Aug to 02nd Sep 2017

Course Content

1. Introduction
2. Structure of metals
3. Ferrous and non ferrous metals
4. Heat treatment
5. Strengthening and hardening mechanisms
6. Nomenclature of steels
7. Elastic, plastic deformation
8. Creep
9. Fatigue
10. Fracture

IR 294

Veltech Dr.RR & Dr.SR University

(Estd. u/s 3 of UGC Act, 1956)

Office of International Programmes

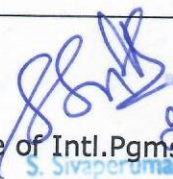
Visiting Professor Programmes

Details of Professor & Course:

Name of the Professor (Profile attached)	Dr.-Ing. Peter Starke Senior research associate
University & Country	Saarland University, Germany
Title of the Course	Metallic Materials
No. of Credits	1 2
Department	Department of Mechanical Engineering
Dates of the Course	Aug 28th to Sep 5th, 2017
Total No. of Hours	30
Course Contents	Attached

Prepared by: 

Coordinator – Office of Intl. Pgms

Forwarded by: 

Director – Office of Intl.Pgms

Director International Relations
Veltech Dr.RR & Dr.SR University
(Estd. u/s 3 of UGC Act, 1956)


HoD


Dean

Dr. Ravichandran A.T

Dean School of Mechanical & Construction

Veltech Dr.RR & Dr.SR University

(Estd. u/s 3 of UGC Act, 1956)


Director (Academic)

Vice Chancellor



24.08.2017

School of Mechanical and Construction Engineering

Department of Mechanical Engineering

Two credit course Program: Metallic Materials

Program Schedule

Sl.no	Day	Time
1	Monday	8:45to12:45 & 1:45 to 4:45
2	Tuesday	8:45to12:45 & 1:45 to 2:45
3	Wednesday	8:45to12:45 & 1:45 to 3:45
4	Thursday	8:45to12:45 & 1:45 to 4:45
5	Friday	8:45to12:45 & 1:45 to 4:45

12:45 to 01:45 – Lunch

HOD SIGNATURE

(Prof A T RAVICHANDRAN)

FACULTY INCHARGE

(B R ARAVINDH RAJ)

Stu_Id	Stu_Name	Stu_Branch	Course Code	Course Name	Stu_Subject_PassFail	Stu_Grade_Point	Stu_Grade
VTU7545	ABHIMANYU RANA	MECHANICAL	1157ME912	Metallic Materials	Pass	7	C
VTU7547	SIRAMMAGARI DAMODAR REDDY	MECHANICAL	1157ME912	Metallic Materials	Pass	7	C
VTU7603	RAVILLA MAHESH	MECHANICAL	1157ME912	Metallic Materials	RA	0	RA
VTU7626	PALAGIRI ANIL KUMAR	MECHANICAL	1157ME912	Metallic Materials	Pass	7	C
VTU7673	GOBBURU AKHIL	MECHANICAL	1157ME912	Metallic Materials	Pass	7	C
VTU7570	DHARMENDAR KUMAR	MECHANICAL	1157ME912	Metallic Materials	RA	0	RA
VTU7592	KONDETI MOHITH	MECHANICAL	1157ME912	Metallic Materials	Pass	6	D
VTU7662	SANIKOMMU SRINIVASA REDDY	MECHANICAL	1157ME912	Metallic Materials	Pass	6	D
VTU7684	S.SANTHOSH KUMAR RAJA	MECHANICAL	1157ME912	Metallic Materials	Pass	7	C
VTU7696	DIPSON RIMAL	MECHANICAL	1157ME912	Metallic Materials	Pass	7	C
VTU7763	UMA MAHESH.K	MECHANICAL	1157ME912	Metallic Materials	Pass	6	D
VTU7809	MALLELA SAI CHAITANYA KRISHNA	MECHANICAL	1157ME912	Metallic Materials	Pass	6	D
VTU7828	GANTYADA ANANDRATNA KUMAR	MECHANICAL	1157ME912	Metallic Materials	RA	0	RA
VTU7981	ARAVINDH .M	MECHANICAL	1157ME912	Metallic Materials	Pass	6	D
VTU8037	UKKALAM KASIAH	MECHANICAL	1157ME912	Metallic Materials	RA	0	RA
VTU8167	KODURI RAJASEKHAR REDDY	MECHANICAL	1157ME912	Metallic Materials	RA	0	RA
VTU8206	SELVA KUMAR .S	MECHANICAL	1157ME912	Metallic Materials	Pass	6	D
VTU8290	NIRMAL KUMAR	MECHANICAL	1157ME912	Metallic Materials	RA	0	RA
VTU8549	TARACHAND CHAURASIYA	MECHANICAL	1157ME912	Metallic Materials	RA	0	RA
VtU7178	MEKALA JAGADEESH	MECHANICAL	1157ME912	Metallic Materials	RA	0	AB
VtU7570	DHARMENDAR KUMAR	MECHANICAL	1157ME912	Metallic Materials	RA	0	AB
VtU7603	RAVILLA MAHESH	MECHANICAL	1157ME912	Metallic Materials	RA	0	AB
VtU7828	GANTYADA ANANDRATNA KUMAR	MECHANICAL	1157ME912	Metallic Materials	RA	0	AB
VtU8037	UKKALAM KASIAH	MECHANICAL	1157ME912	Metallic Materials	RA	0	AB
VtU8167	KODURI RAJASEKHAR REDDY	MECHANICAL	1157ME912	Metallic Materials	RA	0	AB
VtU8290	NIRMAL KUMAR	MECHANICAL	1157ME912	Metallic Materials	RA	0	AB
VTU8549	TARACHAND CHAURASIYA	MECHANICAL	1157ME912	Metallic Materials	RA	0	AB
VTU7178	MEKALA JAGADEESH	MECHANICAL	1157ME912	Metallic Materials	RA	0	RA

Veltech Dr.RR & Dr.SR University

(Estd. u/s 3 of UGC Act, 1956)

S.Sivaperumal

Director International Relations

Date: 29 AUG 2017

Our Ref. No: 2017/VF17

Your Ref. No:

Submitted for the Approval:

Name of the Professor: Prof. Dr.- Ing. Peter Starke

University & Country : Saarland University, Germany

Course Title : Metallic Materials

Department : Mechanical Engineering

Students : 2016-2020, 30 Students

Training Program date : 28th Aug to 02nd Sep 2017

Sl. No	Description	Amount in INR	Amount in Euro
1	Course Honorarium (Rs.3000 * 30Hrs) (Net Amount & Tax Free)	90000	1175
2	Visa Processing Charges (1 Euro=75.0990 INR as on 21.07.2017) (To be reimbursed , Bill Enclosed)	9839	131.01
3	Local Train (Kaiserslautern to Frankfurt) (1Euro= 75.4938 INR as on 24.08.2017) (To be reimbursed , Bill Enclosed)	2031	26.90
4	Local Train (Frankfurt to Kaiserslautern) (1Euro= 75.4938 INR as on 24.08.2017) (To be reimbursed , Bill Enclosed)	2152	28.50
	Total	104022	1361.4

(Rupees One lakh four thousand and twenty two only)

In this regard, I request your approval for transferring the amount in EURO to the Following Account,

Name: Klaus Peter Starke

Bank name: Raiffeisenbank Freinsheim

Account No: 304344

IBAN NO: DE93546618000000304344

Thank You,

S. Sivaperumal

S. Sivaperumal
Director International Relations
Veltech Dr.RR & Dr.SR University
(Estd. u/s 3 of UGC Act, 1956)

400 feet Outer Ring Road, Avadi,
Chennai-600 062, Tamil Nadu, India.
Mobile : +91 96000 40255
Email : dint@veltechuniv.edu.in
Website : www.veltechuniv.edu.in

Internationaler VisumDienst Schelske · Friedensstrasse 3 · D-60311 Frankfurt

Universität des Saarlandes/Lehrstuhl für
Zerstörungsfreie Prüfung und Qualitätssicherung
Herrn Dr. Peter Starke
Am Markt, Zeile 4
66125 Saarbrücken

Rechnung:

Bei Zahlung bitte angeben

RechnungsNr.: 350011
Ihr Auftrag : 1159404
Rechnungsdatum: 21.07.2017

KundenNr: 15146	Lieferdatum: 21.07.2017			
Land	Leistung	Anz.	Einzelpreis	Gesamtpreis
Indien	Research Visum Herrn Dr. Peter Starke (2Mon/1x))	1	27,50 €	27,50 €
	Anlieferung: Fremd-Kurier	1	0,00 €	0,00 €
	Rücklieferung: Einschreiben Einwurf	1	3,60 €	3,60 €
Indien	Zuschlag IGCS Indien	1	13,45 €	13,45 €
Zwischensumme umsatzsteuerpflichtige Beträge				44,55 €
+ 19% MwSt				8,46 €
Zwischensumme incl. USt				53,01 €
Indien	Konsulargebühr der Botschaft Indien	1	78,00 €	78,00 €
				78,00 €
(durchlaufende Posten, nicht umsatzpflichtiges Entgelt gemäß §152 USTR)				
Gesamtbetrag:				131,01 €

IVDS Bonn
Gotenstrasse 27
D-53175 Bonn
Tel: 02 28-3 50 39 81/-2
Fax: 02 28-3 50 39 83

IVDS Frankfurt
Friedensstrasse 3
D-60311 Frankfurt
Tel: 0 69-25 62 29 90/-1
Fax: 0 69-25 62 29 92

IVDS Berlin
Wichmannstrasse 12
D-10787 Berlin
Tel: 0 30-85 62 16 90/-1
Fax: 0 30-85 62 16 92

e-mail:
info@visum-ivds.de
Internet:
www.visum-ivds.de

Bürozeiten:
Montag bis Donnerstag:
8 - 17 h
Freitag:
8 - 16 h

POSTEINGANG

1. Aug. 2017

Lehrstuhl für Zerstörungsfreie
Prüfung und Qualitätssicherung

Sachlich und rechnerisch
richtig
zu zahlen aus
5151170
i.V. Starke

IBAN: DE02 370 501 98 0026 0043 33 - SWIFT - BIC: COLSDE33

Rechnungsbegleichung sofort
Wir bedanken uns für Ihren Auftrag und wünschen Ihnen eine gute Reise!
Hinweis: Bitte kontrollieren Sie Ihr Visum nach Erhalt auf Richtigkeit. Sollte ein Fehler vorliegen,
dann rufen Sie uns umgehend an.

Bankverbindung:
Sparkasse KölnBonn
BLZ 370 501 98
Konto 26004333
St.-Nr.: 206/5092/1478
IBAN:
DE02370501980026004333
SWIFT-Bic: COLSDE 33
UStId-Nr.: DE212743237



Online-Ticket

ICE Fahrkarte

Gültigkeit: **ab 25.08.2017**

GILT NUR FÜR EINGETRAGENE ZÜGE / TAGE / ZEITEN (ZUGBINDUNG); NV = NAHVERKEHRSZÜGE VOR / NACH FERNVERKEHRSZÜGEN; GILT JE FAHRT MAX. 1 TAG BIS FOLGETAG 10 UHR

Sparpreis (Einfache Fahrt)

Klasse: **2**

Erw: **1, mit 1 BC25**

Hinfahrt: **Kaiserslautern+City → Frankfurt(M)Flugh., mit ICE, (SPAR1035)**

Über: **KL-Hbf 10:30 RE4102/MA-Hbf 11:21 ICE914**

Umtausch/Erstattung kostenpflichtig bis 1 Tag vor 1. Geltungstag, danach ausgeschlossen

Barcode bitte nicht knicken!



Hinfahrt:

Gültig ab: **25.08.2017**

Zangenabdruck

Zahlungspositionen und Preis

Positionen		Preis	MwSt (D) 19%	MwSt D: 7%
ICE Fahrkarte	1	26,90€	26,90€	4,29€
Summe		26,90€	26,90€	4,29€
Kreditkartenzahlung				
Betrag	26,90€	VU-Nr	4556695619	Transaktions-Nr 624483
Datum	24.08.2017	Gen-Nr	812605	

Ihre Kreditkarte wurde mit dem oben genannten Betrag belastet. Die Buchung Ihres Online-Tickets erfolgte am 24.08.2017 09:02 Uhr. DB Fernverkehr AG/DB Regio AG, Stephensonstr. 1, 60326 Frankfurt, Steuernummer: 29/001/60002.

Herr Dr. Peter Starke
Auftragsnummer:

BNUG41

Ihre Reiseverbindung und Reservierung Hinfahrt am 25.08.2017

Halt	Datum	Zeit	Gleis	Produkte	Reservierung
Kaiserslautern Hbf	25.08.	ab 10:30	4	RE 4102	
Mannheim Hbf	25.08.	an 11:13	4		
Mannheim Hbf	25.08.	ab 11:21	2	ICE 914	
Frankfurt(M) Flughafen Fernbf	25.08.	an 11:53	Fern 6		

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Peter Starke

25 08



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Seite 1 / 2



Online-Ticket

ICE Fahrkarte

Fahrtantritt am 03.09.2017

Flexpreis (Einfache Fahrt)

Klasse: 2

Erw: 1, mit 1 BC25

Hinfahrt: Frankfurt(M)Flugh. → Kaiserslautern+City, mit ICE

Über: VIA: (BENS*MA/WO)*SIF

Umtausch/Erstattung kostenlos bis 1 Tag vor Reiseantritt (Hinfahrt)

Zahlungspositionen und Preis

Positionen		Preis	MwSt (D) 19%	MwSt D: 7%
ICE Fahrkarte	1	28,50€	28,50€	4,55€
Summe		28,50€	28,50€	4,55€

Kreditkartenzahlung

Betrag 28,50€ VU-Nr 4556695619 Transaktions-Nr 622892
Datum 24.08.2017 Gen-Nr 879059

Ihre Kreditkarte wurde mit dem oben genannten Betrag belastet. Die Buchung Ihres Online-Tickets erfolgte am 24.08.2017 09:05 Uhr. DB Fernverkehr AG/DB Regio AG, Stephensonstr. 1, 60326 Frankfurt, Steuernummer: 29/001/60002.

Barcode bitte nicht knicken!



Hinfahrt:

Gültig ab: 03.09.2017

Zangenabdruck

Herr Dr. Peter Starke

Auftragsnummer:

1CCZZ7

Ihre Reiseverbindung und Reservierung Hinfahrt am 03.09.2017

Halt	Datum	Zeit	Gleis	Produkte	Reservierung
Frankfurt(M) Flughafen Fernbf	03.09.	ab 09:51	Fern 5	ICE 103	
Mannheim Hbf	03.09.	an 10:23	4		
Mannheim Hbf	03.09.	ab 10:39	1	RE 4119	
Kaiserslautern Hbf	03.09.	an 11:25	3		

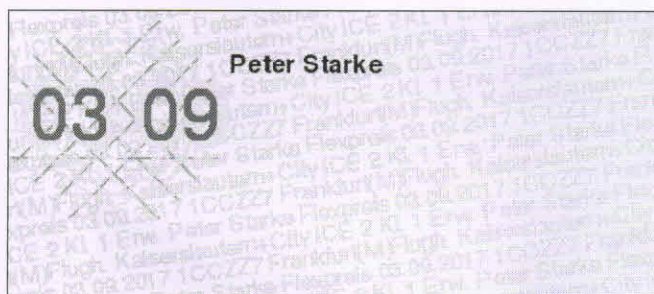
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- Bei Tickets mit BahnCard-Rabatt müssen Sie eine gültige BahnCard vorlegen können
- Bei Flexpreisen auch in anderen Zügen als in der Reiseverbindung angegeben innerhalb der Geltungsdauer gültig (ggf. Aufpreis für anderen Weg erforderlich). Der Fahrtantritt bei Flexpreisen Inland muss am angegebenen Fahrtantritt erfolgen. Soll der Tag des Fahrtantritts geändert werden, so ist ein Umtausch erforderlich
- Erstattung oder Rücknahme über www.bahn.de, in DB Reisezentren oder die in Ihrer Auftragsbestätigung angegebene Serviceadresse. Keine Erstattung oder Rücknahme in Reisebüros
- Das Online-Ticket gilt nur für den unter "Fahrkarte" angegebenen Reiseabschnitt. Die Übersicht "Ihre Reiseverbindung" enthält ggf. Reiseinformationen zu Teilstrecken (z.B. mit dem Bus), für die ein weiteres Ticket erforderlich ist
- Wenn Ihr Ticket den Zusatz "+City" oder "City mobil" beinhaltet, gilt dieser nur am Tag der Hinfahrt bzw. am Tag der Rückfahrt (Reisetage wie unter "Ihre Reiseverbindung" angegeben)
- Es gelten die nationalen und internationalen Beförderungsbedingungen der jeweiligen Beförderer bzw. innerhalb von Verkehrsverbünden und Tarifgemeinschaften deren Beförderungsbedingungen. Den jeweiligen Beförderer finden Sie unter: www.DieBefoerderer.de bzw. www.bahn.de/agb

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