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ACE Project @ KAUST

HERUG 2010, Singapore

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Agenda

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- KAUST Introduction
- ACE (Advanced Collaboration Environment) at KAUST
- Academic Solution at KAUST
- Key Learning's – Next Steps
- Research Solution at KAUST
- Questions ??

Through Inspiration, Discovery

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KAUST

- **KAUST is an international, graduate-level research university.**
- **Core Campus is located on 36 square kilometers along the Red Sea at Thuwal , Saudi Arabia.**
- **First batch started in Sept 2009 offering MS and PHD Programs.**
- **KAUST Campus offers State of the Art facilities.**
- **Visit us at www.kaust.edu.sa for more details**

ACE Project Summary

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- ACE scope
  - 12 Phases
  - 16 SAP modules
  - 5 third party applications
- Project Kickoff June '08
- Project completion 30th June '09
- 3 months support – July to Sep '09
- ACE steering committee well represented with KAUST / Aramco PMT and Partner Management.

ACE Project Elapses

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FI and HR

Dec '08

Rest of the modules

Jun '09

Support phase

Sep '09

KAUST High Level Academic Process

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Admission Process we Support

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Applicant

- Application process can start in 3 ways (Direct/Sponsored/Nominated)
- Applicant receives account credentials to fill the Application online
- Applicant completes the application and submits it.

Admissions

- Verifies the completeness of application.
- Updates Original Records of Applicants.
- Review Process is started after Applicant file is complete.

Faculty and Review Committee

- KAUST Review Process will result in Approval/Rejection of the Application.

Online Application - Submission

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Review to Approval

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Universal Worklist - KAUST QA Po...

Welcome Praveen Garapati

Employee Self-Service | RE | EHS | Business Intelligence | SLcM | CRM | Personal Le

Student Approvals | Student Tracking | Student Administration | Faculty | Student

Universal Worklist

Detailed Navigation

Approvals

Universal Worklist

Tasks (3 / 7) | Alerts | Notificat

Show: New and In Progress Tasks

Subject

Please Approve Application N 20 _PhD_Fall_2010/

Task - KAUST QA

/sthpmqm8qa.kaust.edu.sa:50000/irj/servlet/prt/portal/prteventname/Navigate/prtroot/pcd!3aporta

Student Det

Notification: 10 320

First name: Pra

Last name: Garapati

Checklist

University	NO	YES	Enrollment Status	NO	YES
CUM GPA	NO	YES	Nominations	NO	YES
Field of Study	NO	YES	First Check	NO	YES
Recommendation	NO	YES	Second Check	NO	YES
Transcript Attached	NO	YES	Status Application	NO	YES
Transcript Mail	NO	YES	Statement of Purpose Essay	NO	YES
4.0 Equivalent: *			Group: *		

Comments

ON HOLD | APPROVE | REJECT

Student Lifecycle we Support

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Registrar

- Approved Applicant will be Registered for the current year and session.
- Final Grading and Result done in SAP (Student GPA and Earned Credits)
- Re-registration , Degree Audit of the Student and Student Graduation (Award Degree)

Students

- Students will book Courses Online

Faculty/Advisory

- Student advising will be done via KAUST advisor portal
- Student and Faculty interaction using Blackboard
- Examination and Grading done in Blackboard

Course Registration to Grading

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Module Abbreviation	Module Name	Section	AttemptedCredits	Cancel Date	Book Date	Status	Grade
AMCS 229	Machine Learning	Lec1	2	05/03/2010	05/03/2010	Cancelled	
AMCS 229	Machine Learning	Lec1	2	05/03/2010	05/03/2010	Cancelled	
AMCS 100	Real Analysis	AMCS 100-1	3	05/03/2010	05/03/2010	Cancelled	
AMCS 229	Machine Learning	Lec1	2	05/03/2010	05/03/2010	Cancelled	
AMCS 229	Machine Learning	Lec1	2		05/03/2010	Booked	
AMCS 101	AMCS 101	AMCS 205	3		05/03/2010	Booked	
AMCS 207	AMCS 207	AMCS 207-2	3	05/03/2010	05/03/2010	Cancelled	
AMCS 207	AMCS 207	AMCS 207-2	3	05/03/2010	05/03/2010	Cancelled	
AMCS 207	AMCS 207	AMCS 207-2	3		05/03/2010	Booked	
AMCS 209	Modern Calculas	AMCS 209	3	05/03/2010	05/03/2010	Cancelled	

StudentNo.	First name	Last name	Grade	Attm. credits	Earned	Graded	Acader
5000000420	Idris	Ajia	W	3	0	0	K4QM I
5000000403	Hommood	Al Rowais	A-	3	3	3	K4QM I
5000000226	Emad	Al-Hemyari	A-	3	3	3	K4QM I
5000000108	Ismail	Al-Qerm	A-	3	3	3	K4QM I
5000000154	Gamal El Din	Amin	A	3	3	3	K4QM I
5000000168	Imran	Ansari	A-	3	3	3	K4QM I
5000001359	Mahdi	Ben Ghorbel	A	3	3	3	K4Q Ka
5000000245	Ahmad	Dehwah	A-	3	3	3	K4QM I

Advisor Portal to Graduation

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Student Info Center – Portal

http://sthpmqm8qa.kaust.edu.sa:5000 NavigationTarget=navurl%3A% d409e89d8e2bcec14a660aa1ef&dropPRTEvent=OBNEvent&S

History Back Forwar

Student (Rodulfo H lez, Jose)

Student Number 5000000885
Name Rodulfo Hernandez, 986; Male
Principal OU
Status
Program

Refresh You Can Also:

Overview | Bio-demographic Data | Academic His

Indicators
Account Balance:
Academic Hold:

Communication
Address: Manchester United Kingdom
Telephone: + 20(02)0105094439
Mobile Phone:
E-Mail Address: jose_rodulfo@hotmail.com

Current Program Type Progression

Progression Category	Progression result
No Data Available	

Graduation:Prog udy (Computer Science (MS))

Name Alghamdi, Mohammad; *04/25/1982; Male

Profile Type Simulation Profile
Audit Result
Created by Adofficerfn Adofficerln
Reqmt Profile(Desc.) M_CS
Released ☑
Execution Mode Simulation Audit
Created On 06/14/2009

Audit Details | To Be Booked

Academic Work Usage | Calculation Details | All Details

Requirements
- Overall result
  - General Requirement in M.S.
    - 30 CRH 200 level or Above
    - 3 CRH in Mathematics
  - Major requirement
    - 9 Credits From Major
  - Requirement in Research Projects
    - 6 CRH in Research Project
  - Requirement in Technical Courses
    - 24 CRH in Tech. Courses

Overall result

General Requirement in M.S.

30 CRH 200 level or Above

Academic Work	Academic Year	Academic Session	Event Package	Status	Grade	Attm. credits	Earned Credits
CS 208	2009/2010	Fall		Completed with Success	A	3	3
CS 211	2009/2010	Fall		Completed with Success	A+	3	3
CS 229	2009/2010	Fall		Completed with Success	A	3	3
CS 221	2009/2010	Fall		Completed with Success	B	3	3
CS 240	2009/2010	Fall		Completed with Success	A	3	3
CS 243	2009/2010	Fall		Completed with Success	B+	3	3
CS 261	2009/2010	Fall		Completed with Success	B+	3	3
CS 242	2009/2010	Fall		Completed with Success	A+	3	3
CS 200	2009/2010	Fall		Completed with Success	A	3	3
CS 206	2009/2010	Fall		Completed with Success	A	3	3

Column 1 of 26

Student Accounting we Support

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- Student Fee Calculation (will be used in future once applied)
- Fee posting in SAP FI (integration with SAP FI)
- Student Stipend and Award Calculation
- Miscellaneous charges to student (e.g. library charges)
- Different Reimbursement to Students (e.g. Travel Expenses)

Stipend Processing

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Key Learning's-Academic Applications

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SLCM

- Admission Reporting
- Lack of Web based Review Process framework.
- User Friendliness of the Solution.
- Understanding Functionality and Maturity compared to Specialized systems in HE&R Industry.

Documentum

- Increase Concurrent Connections Count
- Configure Auto Session Release

Records Management

- Use of API's instead of RFC's
- Storage of Meta Data in SAP Database.

Workflow

- Group Based Workflow Design
- Extensive Testing

Key Learning's-Academic Applications

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Infrastructure

- Increase Bandwidth for Reverse Proxy
- Choice of Technology –WD4A !!

Portal

- Time Outs (UWL Time Out Parameters)
- Dynamic Refresh (Workaround Delta Refresh)
- Safari Support

Abap Webdynpro

- Compatibility
- Session Close (Exit Browser) Has different behavior in IE and Fire Fox.

Key Learning's-ACE Project

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- Prepare for User Interface issues – Software Golden Mile
- Plan to address Additional requirements from new members – Start up Syndrome
- Availability of power users - Continuous Testing and Training
- Prepare for Change of proponents – Manage Expectations with minimum changes
- Non-Availability of documented policies and procedures – Leverage Best Practices

Next Steps/Projects

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- Stabilize .. Stabilize.. Stabilize

- Project Development Tool Phase 2.
- EHP 4/5 Implementation.
- SAP for Admissions.
- Business Objects – Reporting Out of the Box.
- SOA Composites – Accelerate Custom Development.
- Extend Application Reach – Mobile Access etc..

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SAP and Research Environment…

- KAUST SAP Application Scope for Research Process…

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Pre-Award research process…

- **Pre-Award - Present**

- In-house development
  - WEB based SAP portal application processing (Internal and external researchers)
  - Available for both in house and external researchers for applying to KAUST research programs
  - Link to SEM – IP planning module for financial cost planning
  - Calculation of plan cost automated to cost projects and includes HR position based costing
  - Records management is used for upload of testimonial by applicants
  - Review process of application using SAP workflow and is not governed by boundaries
  - Dashboard at various stages of project development to monitor the status of project progress

    - Applicants (views the status of his application)
    - Project Managers (Views the status of each program and application)
    - Reviewers (Views the application that he has to review)
    - Board members (Views the results as part of decision making)

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Pre-Award research process…

- **Pre-Award - Present**

- In-house development (continued)
  - One time registration for all KAUST / External funded project through KAUST portal
  - Ethics and standard measured in the pre-award application by concerned department at the time of application assessment and review
  - Review process controlled by a set of questions and review points offered by the system automatically
  - Project authentication is controlled by workflow process
  - Project negotiation with the sponsor controlled by version management and workflow
  - Collaboration cost of the project are captured and distinctly identified at the pre-award stage
  - Inflation percentage of costs of project that are carried for multiple years are controlled by set percentage rates
  - Reviewer can be chosen based on the project and they review the application independently

SAP and Research environment

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- **Pre-Award - Present**

Open Programs | My Open Proposals | Shared Proposals

Available Programs

CFP ID	Description	Call Open Date	Call End Date	Announcement Date	
0000000173	KASUT WORKFLOW	03.02.2010	27.06.2010	28.11.2010	Create New PDT
1000000018	CFP TEST 220410	01.04.2010	30.06.2010	30.06.2010	Create New PDT
1000000109	TESTING FOR COLL AND SPON 27TH MARCH 2010	27.03.2010	28.04.2010		Create New PDT
1000000127	TESTING RECONSIDER STATUS	04.04.2010	27.05.2010		Create New PDT
1000000130	JUST TESTING	06.04.2010	04.05.2010		Create New PDT
1000000019	CFP TESTING	01.06.2010	30.06.2010	30.06.2010	Create New PDT
1000000108	TESTING COLLABORATOR DATA	27.03.2010	28.04.2010		Create New PDT
1000000111	TESTING RECONSIDER	03.04.2010	28.04.2010		Create New PDT
1000000126	TESTING CFP	03.04.2010	26.05.2010		Create New PDT
1000000129	TEST	05.04.2010	10.04.2010		Create New PDT

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SAP and Research environment

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- **Pre-Award - Present**

Project Financials

Application Number		Project Start Date	Project End Date
100000002300001	Application for Presentation	01.05.2010	30.04.2012

Back to Application

Chronology | Labour Cost Calculation Report | KAUST Yearly Plan Costs | KAUST Overhead & Price | Colloborator Yearly Plan Costs | Colloborator Overheads & Price | Total Project Cost Schedule

Below Labour Costs have been calculated as per the Labour Cost Calculation Logic - based HR Position Start Date and End Date, FTE Time Utilization, Sponsor Coverage Start Date and End Date, Annual Inflation and Working Days, per Project Year.

	Project Year	1	2	3	Overall Result
		Amount	Amount	Amount	Amount
HR Position		$	$	$	$
A03	Asso. Professor		717,561.63	2,820.92	720,382.55
A04	Professor	1,293,516.54	1,332,321.99	5,237.80	2,631,076.33
R03	Research Scientist1		142,110.63	558.66	142,669.29
Overall Result		1,293,516.54	2,191,994.25	8,617.38	3,494,128.17

SAP and Research environment

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- **Pre-Award - Present**

Chronology | Labor Cost Calculation Report | KAUST Yearly Plan Costs | KAUST Overhead & Price | Collaborator Yearly Plan Costs | Collaborator Overheads & Price | Total Project Cost Schedule

Total Project Cost

Project Year	KAUST	Colloborator	Total Project Cost
	$		$
1	2,683,992		2,683,992
2	33,244,032		33,244,032
Overall Result	35,928,024		35,928,024

Detailed Project Cost

Project Year	1			2			Overall Result		
	KAUST	Colloborator	Total Cost	KAUST	Colloborator	Total Cost	KAUST	Colloborator	Total Cost
	$		$	$		$	$		$
5010100 - Staff	0		0	0		0	0		0
TOTAL LABOR	0		0	0		0	0		0
5020103 - Charge for Use of Existing Equipment	137		137	74,794		74,794	74,931		74,931
1020329 - Equipment Purchase with Value (<$10,000)	1,382		1,382				1,382		1,382
5020105 - Equipment Installation Costs	1,071,605		1,071,605				1,071,605		1,071,605
5050100 - Equipment Maintenance Costs	91,605		91,605	45,436		45,436	137,040		137,040
5020700 - Consumables/Materials	91,605		91,605				91,605		91,605
5021101 - Travel Fares Domestic	328,376		328,376	33,114,794		33,114,794	33,443,169		33,443,169
5021100 -Travel Fares International	91,608		91,608				91,608		91,608
5021102 - Accommodation and Subsistence	916,083		916,083	9,009		9,009	925,092		925,092
5020800 - Service Contracts									
5020899 - Project Management Costs	91,592		91,592				91,592		91,592
5021200 - Conference Fees									
5020403 - License Fees									
5020799 - Other Costs									
SUB TOTAL NON-LABOR OPERATING COSTS	2,683,992		2,683,992	33,244,032		33,244,032	35,928,024		35,928,024
1020313 - Equipment Purchase (> $10,000)									
TOTAL NON-LABOR	2,683,992		2,683,992	33,244,032		33,244,032	35,928,024		35,928,024
TOTAL LABOR AND NON-LABOR COSTS	2,683,992		2,683,992	33,244,032		33,244,032	35,928,024		35,928,024

SAP and Research environment

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• Pre-Award - Future

- To adopt the data from the Pre-Award application to SAP R/3 to avoid duplication
- Master data creation (Automatically adopt applicant conditions to grant master on award)
- Adoption of plan costs from awarded Pre-Award application
- Application will be made dynamic depending on the type of program
- Workflow to be dynamic based on type of program
- To enhance the system to accommodate new research programs with little or no developments
- Digital signature of project authentication when submitted by the applicant
- Digital repositories to be changed to documentum from the current SAP content server

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SAP and Research environment

- **Award – Present & Future**

Present

- Creation of master data in grants management and funds management
- Adoption of budget from SEM – IP to funds management and controlling
- Setting up of derivation for cost capture

Future

- To create the master data by adopting the data from awarded application which will be controlled with a workflow action in grants management
- To adopt budget values from within SEM-IP automatically in grants management

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SAP and Research environment

- **Post-Award - Present**

- Post-awards managed using funds management and grants management
- Schedule manager activated to indicate the project timelines
- Funds manager provided with a dash board to display the financial results of the project
- Records management is activated to upload the results of the project
- Project managers given access to request for funds based on the previous projection and actual expenses incurred through a dashboard / transaction screen
- Workflow used for the entire process of funds request initiation and till the disbursement of fund

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SAP and Research environment

- **Post-Award - Future**

- To open up KAUST SAP for its collaborative partners across the globe
- To provide dashboard view to sponsors for monitoring the projects sponsored
- xRPM will be implemented to track the project resource requirements
- To integrate documentum as a content repository of all research documents
- To enhance the cProjects and cFolders for meeting all KAUST research requirement
- The approval process to be controlled using the SAP workflow

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Questions ??

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