**EAST LOS ANGELES COLLEGE ENGINEERING AND
TECHNOLOGIES DEPARTMENT ADVISORY
COMMITTEE MEETING
6/7/2017
12:00 PM TO 2:00 PM**

Attendance:

University / Industry Representatives Present

1. Mr. Edward Alvarado, East Los Angeles College
2. Mr. John Alvo, Water Engineering & Technical Services LADWP
3. Mr. Mauricio Castillo, California State University, Los Angeles
4. Ms. Gora Datta, IEEE Region 6
5. Mr. Anthony Delgadillo, UPS
6. Mr. Ray Elledge, Verisurf Software Inc.
7. Mr. Kurtis Fukui, UPS
8. Mr. Humberto Gallegos, East Los Angeles College
9. Mr. David Goodreau, SMI/GWI/NTMA
10. Mr. Brian Hagerty, IEEE Region 6
11. Mr. Gerald K. Herder, California State Polytechnic University, Pomona
12. Everardo Hernandez, East Los Angeles College
13. Chris Herwerth, Glendale Community College
14. Mr. Paul Jones, Corporate & University Relations Group
15. Ms. Sandra Ibarra, East Los Angeles College
16. Mr. Stanley Jacobson, East Los Angeles College
17. Mr. Kamy Khashayar, East Los Angeles College
18. Mr. Tom Lazear, Archway System Inc.
19. Mr. Carlos Lopez, Bureau of Engineering Survey Division
20. Mr. Farid Mesghali, East Los Angeles College
21. Mr. Sami Nadjmetchi, VACCO Industries Multi-Fab Products
22. Mr. Harry Panjabi, Rama Enterprises
23. Mr. Rupa Purasinghe, California State University, Los Angeles
24. Ms. Gisele Ragusa, University of Southern California
25. Mr. Jose Ramirez, East Los Angeles College
26. Mr. Joe Rey, Klein Educational Systems
27. Mr. Bradley Roa, Paton Group
28. Mr. Juan Rodriguez, East Los Angeles College
29. MS. Neelam Rozario, Renesco Technical Training
30. Mr. James Sagil, California State University, Fullerton
31. Mr. Roberto Sedano, Water Engineering & Technical Services LADWP
32. Ms. Lynn Shaw, Doing What Matters, California Community Colleges
33. Mr. Brian Vazquez, East Los Angeles College
34. Mr. Eddie Villanueva, East Los Angeles College
35. Mr. Byron Vivar, UPS
36. Nancy Warter-Perez, California State University, Los Angeles
37. Ms. Michelle Yanez, San Gabriel Valley Economic Partnership
38. Mr. Josh Lazear, Archway System Inc.
39. Ms. Mareta Zúñiga, BuildLACCD Program
40. Mr. Eric Guevara, East Los Angeles College

41. Mr. Frank Montelongo, East Los Angeles College
42. Mr. Joshua Bonilla, East Los Angeles College
43. Ms. Maria Gonzalez, East Los Angeles College
44. Ms. Dana Page, East Los Angeles College
45. Mr. Victor Marquez, East Los Angeles College
46. Mr. Chokin Chin, East Los Angeles College
47. Ms. Ashley Orta, East Los Angeles College
48. Mr. Jorge Castillo, East Los Angeles College
49. Mr. James Arredondo, East Los Angeles College
50. Ms. Quennie Inga, East Los Angeles Collge
51. Mr. Antonio Ascencio, East Los Angeles College
52. Ms. Sandra Jaime, East Los Angeles College
53. Ms. Erika Ramirez, East Los Angeles College

Meeting was called to order at 12:15 PM

Welcome Speech from Faculty Department Chair/Professor Jose Ramirez.

a) Welcome everyone to the East Los Angeles College Engineering & Technologies Advisory meeting 2017.

Introduction and review of 2016 Advisory Committee minutes

Call for corrections and noted

a) No corrections were made.

Motion to approve meeting minutes from 2016 Advisory Committee

a) First motion to approve the minutes Gisele Ragusa.
b) Second motion to approve the minutes Tom Lazear.
c) Motion Approved by consent

Presentation on 2016-2017 Department Activities Summary

    CCCCO: Doing What Matters Grants

    Proposition 39 Clean Energy Jobs Creation Workforce Grant: EET Skills Certificates

    Proposition 39 Clean Energy Jobs Creation Workforce Grant: Advance Manufacturing Bootcamp

    Lottery Grant & ELAC 100 Budget

    Dual Enrollment: Associate Dean Dueñas

    ELAC School of Continuing Education: AB104

    California Work Opportunity and Responsibility to Kids (CalWORKs)

    Perkins Grants

    CTE Strong Workforce

    Unmanned Aerial Vehicle (UAV) Training Project

    Certificates, A.S. Degrees and Transfers

Meeting Presentations

Presentation by Engineering Club members

    a) Ms. Dona Marie Page, President of Engineering Club, presents the mission and vision goal for engineering clubs, Engineering students, and future STEM students. Ms. Page speaks on the beneficiaries of Engineering club, Community Outreach Events, and Conferences meetings.

    b) Ms. Maria Gonzalez, elaborates on Women Engineers.

Presentation by General Engineering 212

    a) General Engineering class members presented their sterling engine FEVO.

Presentation by Dynamics class

    a. Dynamic students: Victor Marquez and Chokin Chin presentation on the five stages of energy transfer.

Round Table discussions:

1. Mr. Ramirez provides explanations on the State programs: Engineering Degree and Certifications.
2. Mr. Khashayar discusses advance manufacturing program and the success of the engineering manufacturing Bootcamp which exposes students to general manufacturing. Student completion of the Bootmcamp will receive certification of completion. It is suggested by Mr. Khashayar that manufacturing industry members hire entry level certified manufactures so that individuals go into industry with the will to work.
3. Dr. Gallegos elaborates on Geo-Spatial Engineering and Technologies
4. Mr. David Goodreau suggest that courses/skillsets acquired in class be fully grasp by the student who is applying technical applications. It is also suggested that skillsets aligned to what the engineer wants. In many cases a student might have the experience of computers, however, lacks the experience in software assistance.
5. Ms. Mareta Zúñiga speaks on internship components. It is essential that students introduce themselves to businesses. Ms. Zúñiga also suggests that schools couple internship with some funding or program that provides students with the opportunity to get their foot in the door, to acquire hands-on and work experience.
6. Mr. John Alvo implies that students have an in-depth understanding of the fundamentals, many students go into industry with the expectation of coming into the top; however, all that is require is the basics and the tests to get in the civil service world. It is perceive that graduate students coming from Universities cannot pass the civil service test because they lack the basic fundamentals. It is important that as educators, one prepares their student for tests.
7. Gisele Ragusa speak on volunteer work, she conveys that many students cannot afford to do volunteer work, many students do not qualify for financial support and have to work in order to buy school books and supplies. Ms. Gisele Ragusa suggest that there be a partnership paid internship with colleges and universities.
8. Mr. Kurtis Fukui speaks on job offers provided by UPS. UPS offers level entry positions that teaches candidates the skillsets and the culture of UPS. After 6 months candidates can promote to engineering.

9. Mr. Eric Guevara speaks on internship and announces that students are willing to accept pain or non-paid internships.
10. Rupa Purasinghe Speaks on paid internship.
11. Mr. Brian Hagerty recommends calling the CIS to CS transformation program CECS (Computer Engineering and Computer Science). CECS is more comprehensive than CS.
12. Mr. Ray Elledge, in regards to Quality control Tech and CNC Certification, implies that Quality Control Technician - QTC runs parallel to the CNC program. Mr. Ray Elledge, suggests that the two courses be ducktail or combine with other courses. Other campuses are duck tailing their MasterCAM Lab.
13. Mr. Bradley Roa suggest that classes be modify and integrate with CIS (Computer Intergrade Manufacturing).
14. Mr. Bradley Roa suggested that there be a website update which allows industry members to post internship/job openings for continuing and graduate students.
15. Mr. Brian Hagerty speaks on energy analyses for sustainability.

Motion to approved Department Request
   a) First motion Ms. Gisele Ragusa
   b) Second motion Carlos Lopez
   c) Motion Approved

Department Request:
   a. **Potential merger of Computer Science discipline from Business Department with Engineering and Technologies Department**
   b. **Engineering Instructor Tenure Track for Fall 2018**
   c. **Engineering Laboratory Technician**
   d. **Replacement of Electronics Department (Joe Kao)**
   e. **Accreditation Board for Engineering and Technology (ABET)**
   f. **Engineering Technology Accreditation Commission**
   g. **Unmanned Autonomous Systems (UAS)/Unmanned Autonomous Vehicle (UAV)**
      • **Program and course development**
      • **New Top Code**
   h. **GSET Request**
      Geo-Spatial Engineering and Technologies
      • Equipment/Hardware/Software for high school and adult education
      • Articulate agreements with CPP. CSU Fresno, and out of state colleges
      • City on Pathway for lady surveyors
      • Chartering Clubs: ASPRS and ASCE
      • Build PODER sustaining research
      • Marketing video and brochure with Cal Poly Pomona
      • PNPR done and course outline done for GSTE courses, excluding flood mapping courses, updates include the usage of drones

- Join Skills Certificate
  - Architecture Department: ES 121 and Arch 164
  - Geography Department: ES 121 and Geo 25
  - Business Department: ES 225

i. **Electronics: IT Technician Pathway**

    Investigate if ITT Pathway can used cloud computing on Google or Amazon networks

  I. Certificate of Achievement:
- Computer Retail Sales and Support (Stage I)
- Help Desk User Support (Stage II)
- IT Technician (Stage III)

  II. Associates of Science Degree
- IT Technician

  III. K5-108E Location for Netlab + Network Servers

  IV. CTE Strong Workforce Grant Proposal

j. **Guided Pathway Academy**

Courses:
- GE 101 Introduction to Science, Engineering and Technology (UC:CSU) 2 units
- MIT 220 Introduction to Robotics (CSU) 3 Units
- EET 123 Programming with Arduino (CSU) 2 Units
- EGD TEK 101 Engineering Graphics (UC:CSU) 3 Units
- EGD TEK 111 AutoCAD 2D (UC:CSU) 3 Units
- EGD TEK 121 SolidWorks 3D (CSU) 3 Units
- ES 100 Plane Surveying I: Boot Camp for High School Students 2 Units
- ES 101 Plane Surveying II: Boot Camp for High School Students 2 Units (Pending New Course)

k. **CNC Certification**
- Skills Certificate base on Los Angeles Valley College
  - Advance Manual CNC Lathe Programming & Introduction to CAM
  - Advance Manuel CNC Mill and Microcomputer Assisted Programming
  - Computer Aided Manufacturing Programming of CNC Equipment

l. **Engineering Technology Certificate and Degree programs**
  I. Advanced Manufacturing Engineering Technician
- Computer Aided Manufacturing – CAM in CNC Programming and CNC Operation

  II. Mechanical Engineering Technician
- Computer Aided Design – CAD with 3D printing and Laser Scanning

  III. Industrial Engineering Technician

- Quality Control and Assurance – QCA with Coordinate Measuring Machine (CMM) and Laser Scanning.

m. **Software/Equipment/Facilities**

Bentley Suite, Suit, SolidWorks, CREO PTC, Mathworks, CAD Plotter, Cannon Copier, GIS, 3D Printers Maintenance	$35K
IT Pathway: Stage I, II, and III	$1200K
Advanced Manufacturing Equipment	$600K
Reverse Engineering Arms	$3K
Data Collectors for all Total Stations x7	$25K
Reflector less Total Station x5	$30K
GPS-RTK unit x2Each	$80K
Tooling-U	$10K
Accreditation Board for Engineering and Technology (ABET)	$20K
Chairs for E7-101 and E7-302	$10K
Engineering Computers: E7-101	$130K
Unmanned Aerial Vehicles (UAS)	$100K

Meeting called to adjourn at 2:40 PM