

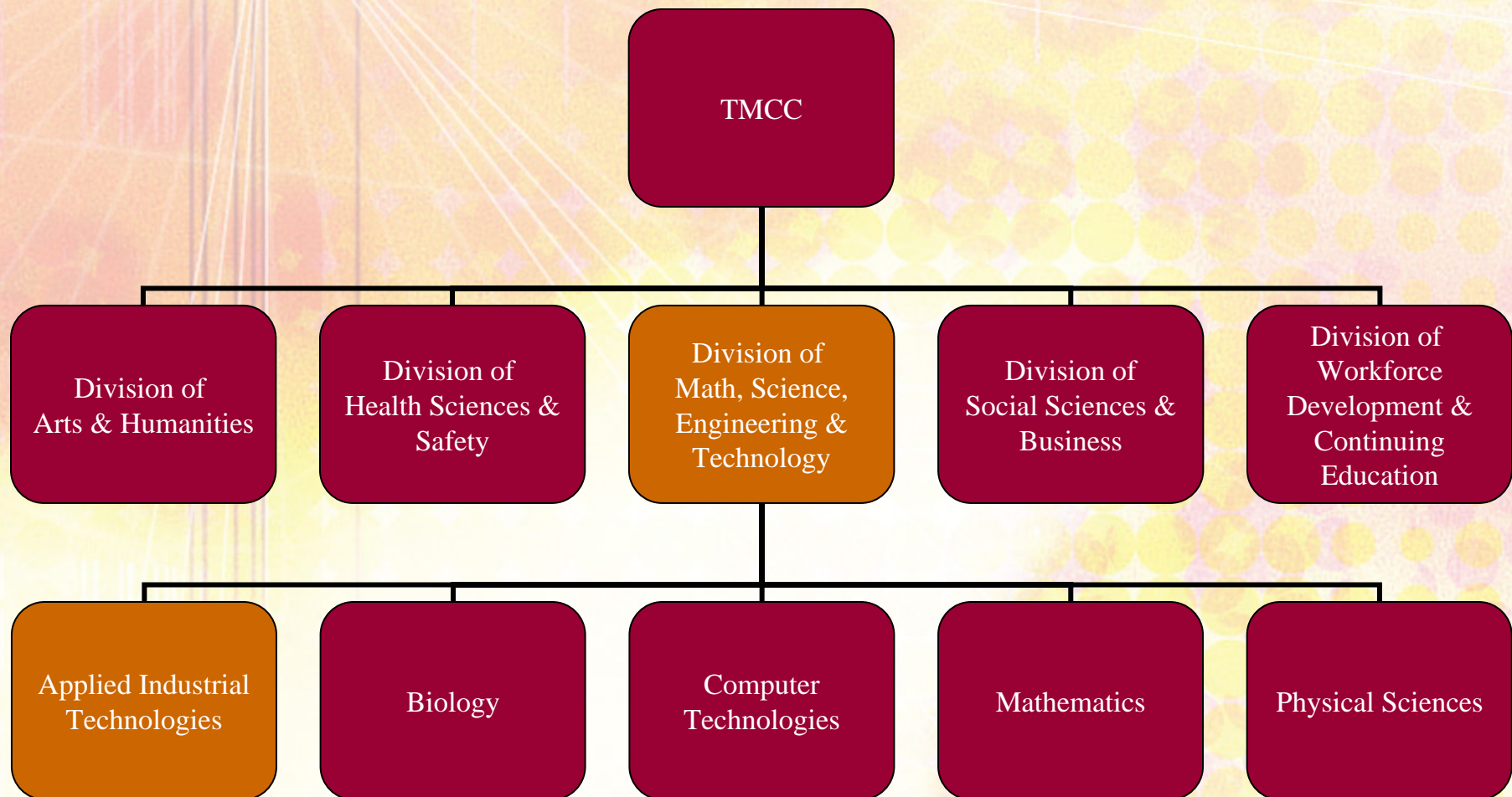
The background features a grid of orange and yellow circles of varying sizes, with thin white lines crisscrossing the scene. A large, semi-transparent orange circle is positioned in the upper left quadrant, containing the word 'INNOVATION'.

INNOVATION

TMCC

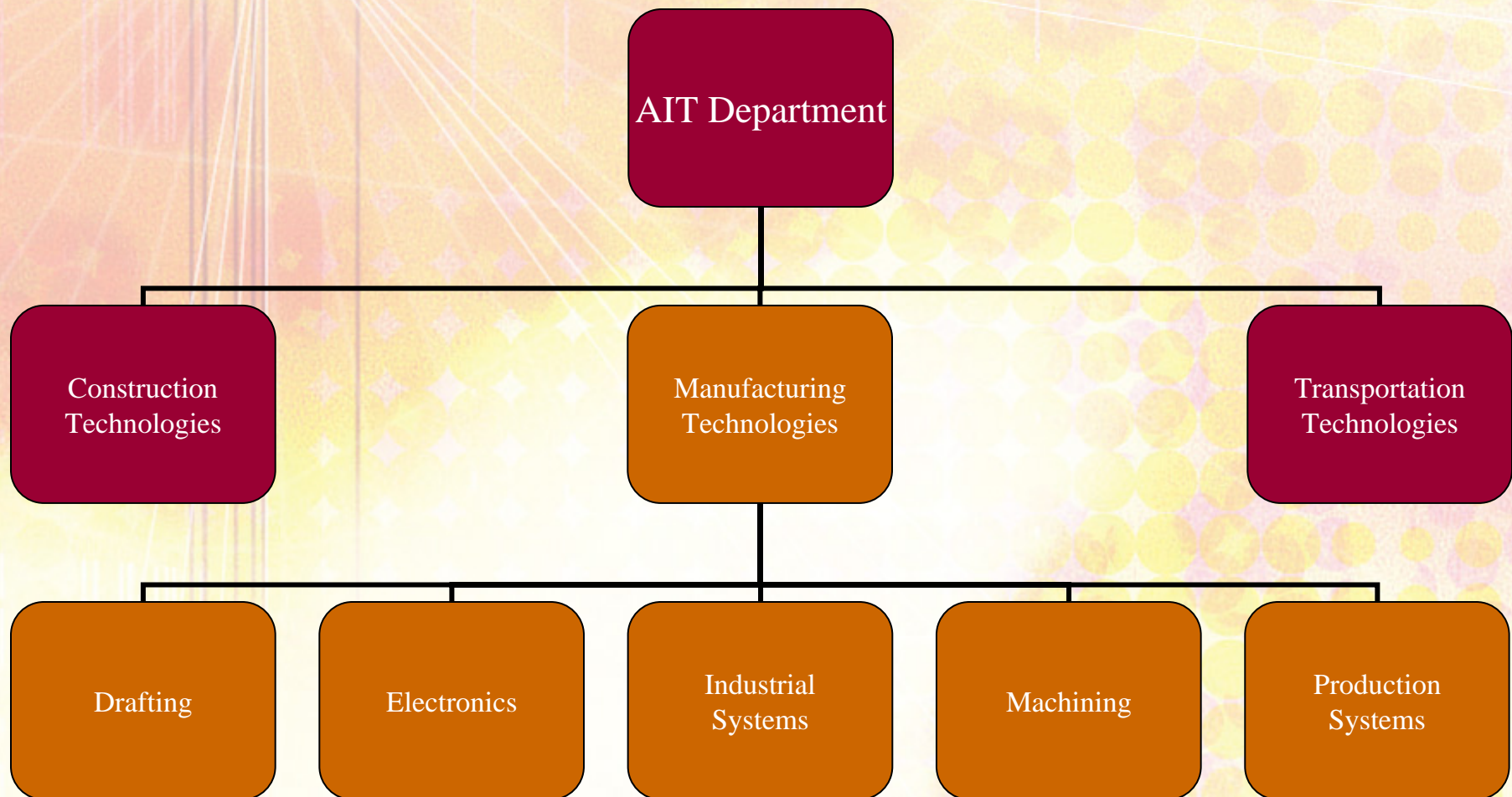
Applied Industrial Technologies

MSET Organization



INNOVATION

AIT Organization



INNOVATION

Manufacturing Technologies

- Drafting – Mechanical
- Electronics – Repair Technicians
- Industrial Systems – Maintenance Technicians (one year certificate)
- Machining – CNC and Manual Technicians
- Production Systems – Quality Control, Planning, Line Supervisors

Degree Revisions

- Converted 4 separate AAS degrees to 1 AAS with 4 emphases
- AAS in Manufacturing Technologies
 - Drafting Emphasis
 - Electronics Emphasis
 - Machining Emphasis
 - Production Systems Emphasis
- Advisory committees established for each emphasis

The Common Core

- AAS built around a common core of courses
 - Workplace Safety
 - Blueprint & Schematic Reading
 - Quality Control
- Goal: Build assessment plan of common measures that recognizes unique characteristics of each program

Prior Assessment Plans

Drafting	Electronics	Machining	Production Systems
Portfolio / Capstone	Post-grad Survey	Advanced Project	Capstone Course
SkillsUSA Placement	Employer Satisfaction Survey	Advisory Committee Survey	Advisory Committee Survey
Pre & Post Tests	Industry Certification Exam	Industry Certification Exam	National Standard Exam

Obstacles

- Not all programs offered capstones
- Postgraduate & employer surveys unreliable
- Post-test sampling small and statistically invalid
- No guarantee students will compete in SkillsUSA
- College not eligible to administer industry certification exams

Opportunities

- All programs are “project-oriented”
 - Each capable of requiring advanced projects
- Advisory committee members also employed our graduates and are responsive to survey requests
 - Networked to other employers
 - Survey results evaluated at regular meetings
- National standard exams available for each discipline
 - Student performance measured against national average

Finding Similarities

Drafting	Electronics	Machining	Production Systems
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Combining Similarities

Drafting	Electronics	Machining	Production Systems
Capstone Project (CADD 299)	Advanced Project (ET 222)	Advanced Project (MTT 292)	Capstone Project (MTT 288)
Employer Survey Advisory Review (Annual)	Employer Survey Advisory Review (Annual)	Employer Survey Advisory Review (Annual)	Employer Survey Advisory Review (Annual)
NOCTI Exam (CADD 299)	FCC Exam (ET 222)	NOCTI Exam (MTT 292)	NOCTI Exam (MTT 288)